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From: Seharaseyon, Jegatheesan
Sent: Monday, June 12, 2006 1:39 PM
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Date Searcher Picked up: 6-15-06
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Type of Search
NA# _____ AA# _____
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OM protein - protein search, using sw model

Run on: June 15, 2006, 07:31:05 ; Search time 185 Seconds

(without alignments)
182.782 Million cell updates/sec

Perfect score: 386
Sequence: 1 MLLTLTLLLLLLKSGSLEW.....PMTCSQAPRGGEKXVDG 73

Scoring table: BLOSUM62
Gap 10.0 , Gapext 0.5

Searched: 2097797 seqs, 463214858 residues

Total number of hits satisfying chosen parameters: 2097797

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 1500 summaries

Database :

Published Applications_AA_Main:*

- 1: /EMC_Ceitera_SIDS3/prodata/2/pubppa/US07_PUBCOMB.pep:*
- 2: /EMC_Ceitera_SIDS3/prodata/2/pubppa/US08_PUBCOMB.pep:*
- 3: /EMC_Ceitera_SIDS3/prodata/2/pubppa/US09_PUBCOMB.pep:*
- 4: /EMC_Ceitera_SIDS3/prodata/2/pubppa/US10_PUBCOMB.pep:*
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- 6: /EMC_Ceitera_SIDS3/prodata/2/pubppa/US11_PUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
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168	386	100.0	73	4	US-10-013-909A-22
215	386	100.0	73	5	US-10-972-317-30
217	386	100.0	73	6	US-11-025-607-32
218	386	100.0	73	6	US-11-102-240-30
219	386	100.0	73	6	US-11-103-195-30
220	72	18.7	892	4	US-10-437-963-197731
221	70.5	18.3	230	5	US-10-821-273-40
222	70.5	18.3	230	5	US-10-734-049A-270
223	69.5	18.0	225	4	US-10-243-552-601
224	68	17.6	930	3	US-09-918-171A-2
225	67.5	17.5	669	3	US-09-983-204-15
226	67.5	17.5	669	4	US-10-097-340-278
227	67.5	17.5	669	4	US-10-097-340-280
228	67.5	17.5	669	4	US-10-373-801-38
229	67.5	17.5	669	4	US-10-133-573-4
230	67.5	17.5	669	4	US-10-741-601-66
231	67.5	17.5	669	5	US-10-741-600-1350
232	67.5	17.5	669	5	US-10-887-233-4
233	67.5	17.5	669	6	US-11-050-926-278
234	67.5	17.5	669	6	US-11-050-926-280
235	67	17.4	158	4	US-10-767-701-56878
236	67	17.4	535	5	US-10-723-860-4109
237	66.5	17.2	516	4	US-10-437-963-190239
238	66	17.1	93	4	US-10-425-115-265982
239	65.5	17.0	140	4	US-10-425-115-305253
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241	65	16.8	475	4	US-10-313-315-6

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244	64.5	16.7	245	5	US-10-450-763-52382	Sequence 52382, A
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247	63.5	16.5	81	4	US-10-311-129-34	Sequence 34, Appli
248	63.5	16.5	96	4	US-10-425-115-301446	Sequence 301446, A
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251	63.5	16.5	158	4	US-10-425-115-311179	Sequence 311179, A
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253	63.5	16.5	243	5	US-10-491-313-46	Sequence 46, Appli
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262	63.5	16.5	282	4	US-10-240-240A-12	Sequence 12, Appli
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269	63	16.3	105	4	US-10-424-599-237205	Sequence 237205, A
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273	62.5	16.2	70	4	US-10-424-599-195983	Sequence 195983, A
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278	62	16.1	349	6	US-11-098-686-10281	Sequence 10281, A
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292	62	16.1	1240	3	US-09-904-065-15	Sequence 15, Appli
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302	61	15.8	152	3	US-09-833-245-2168	Sequence 2168, Ap
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313	60.5	15.7	365	4	US-10-741-601-326	Sequence 326, App
314	60.5	15.7	365	5	US-10-741-600-939	Sequence 939, App

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331	60	15.5	826	5	US-10-509-464-7	Sequence 7, App1	404	58.5	15.2	331	3	US-10-640-668-2	Sequence 2, App1
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347	59.5	15.4	613	4	US-10-437-963-106249	Sequence 106249, A	420	58	15.0	432	4	US-10-167-749-90	Sequence 90, App1
348	59.5	15.4	741	4	US-10-437-963-193189	Sequence 193189, A	421	58	15.0	432	4	US-10-167-749-90	Sequence 90, App1
349	59.5	15.4	793	4	US-10-408-765A-7554	Sequence 2754, App	422	58	15.0	432	4	US-10-174-587-74	Sequence 74, App1
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1147	57.5	14.9	661	3	US-09-764-898-224	Sequence 224, App
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OW protein - protein search, using sw model

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(without alignments)
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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4	63	16.3	124	6	US-10-953-349-14153
5	62.5	16.2	86	6	US-10-953-349-10624
6	59.5	15.4	218	6	US-10-449-902-38587
7	59	15.3	91	6	US-10-953-349-14154
8	59	15.3	98	6	US-10-449-902-29198
9	59	15.3	142	6	US-10-511-937-2432
10	59	15.3	468	6	US-10-953-349-10909
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13	58.5	15.2	155	6	US-10-953-349-35222
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17	57.5	14.9	18	6	US-10-449-902-36872
18	57.5	14.9	655	6	US-10-449-902-36872
19	56	14.5	208	6	US-10-953-349-15677
20	56	14.5	864	7	US-11-312-797-2
21	55.5	14.4	460	6	US-10-504-973-23
22	55	14.2	85	6	US-10-953-349-27987
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24	54.5	14.1	462	6	US-10-449-902-42630
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139	49	12.7	122	6	US-10-511-937-2408	Sequence 2408, App	212	47.5	12.3	290	6	US-10-511-937-4415	Sequence 2415, App
140	49	12.7	150	6	US-10-953-349-27238	Sequence 27238, A	213	47.5	12.3	292	6	US-10-953-349-47286	Sequence 7866, App
141	49	12.7	158	6	US-10-953-349-6870	Sequence 6870, App	214	47.5	12.3	299	6	US-10-953-349-48877	Sequence 18877, A
142	49	12.7	195	6	US-10-449-902-45881	Sequence 45881, A	215	47.5	12.3	304	6	US-10-953-349-33004	Sequence 33084, A
143	49	12.7	206	6	US-10-511-937-2938	Sequence 2938, App	216	47.5	12.3	343	6	US-10-449-902-56513	Sequence 56513, A
144	49	12.7	239	6	US-10-449-902-47053	Sequence 47053, A	217	47.5	12.3	357	6	US-10-953-349-48726	Sequence 18726, A
145	49	12.7	250	6	US-10-449-902-30970	Sequence 30970, A	218	47.5	12.3	390	6	US-10-953-349-49-18755	Sequence 18755, A
146	49	12.7	250	6	US-10-449-902-48250	Sequence 48250, A	219	47.5	12.3	402	6	US-10-953-349-49-1285	Sequence 2185, App
147	49	12.7	260	6	US-10-449-902-54831	Sequence 54831, A	220	47.5	12.3	413	6	US-10-953-349-33144	Sequence 23144, A
148	49	12.7	310	6	US-10-449-902-28498	Sequence 28498, A	221	47.5	12.3	429	6	US-10-953-349-37284	Sequence 7284, App
149	49	12.7	310	6	US-10-449-902-51718	Sequence 51718, A	222	47.5	12.3	440	6	US-10-449-902-31378	Sequence 31378, A
150	49	12.7	477	6	US-10-449-902-48148	Sequence 48148, A	223	47.5	12.3	442	7	US-11-254-173-56	Sequence 56, Appl1
151	49	12.7	487	6	US-10-449-902-38740	Sequence 38740, A	224	47.5	12.3	442	7	US-11-264-784-9	Sequence 9, Appl1
152	49	12.7	492	6	US-10-449-902-41983	Sequence 41983, A	225	47.5	12.3	442	7	US-11-264-737-9	Sequence 9, Appl1
153	49	12.7	798	6	US-10-511-937-2445	Sequence 2445, App	226	47.5	12.3	442	7	US-11-265-761-9	Sequence 2143, A
154	49	12.7	959	6	US-10-953-349-12073	Sequence 12073, A	227	47.5	12.3	479	6	US-10-953-349-33143	Sequence 23143, A
155	48.5	12.6	101	6	US-10-953-349-14439	Sequence 14439, A	228	47.5	12.3	483	6	US-10-953-349-23142	Sequence 23142, A
156	48.5	12.6	105	6	US-10-449-902-48553	Sequence 48553, A	229	47.5	12.3	558	6	US-10-449-902-51516	Sequence 51516, A
157	48.5	12.6	115	6	US-10-953-349-14438	Sequence 14438, A	230	47.5	12.3	565	6	US-10-449-902-52832	Sequence 52832, A
158	48.5	12.6	120	1	US-09-949-925-147	Sequence 38429, A	231	47.5	12.3	571	6	US-10-449-902-54485	Sequence 54485, A
159	48.5	12.6	173	6	US-10-953-349-38429	Sequence 38429, A	232	47.5	12.3	624	6	US-10-449-902-51488	Sequence 51408, A
160	48.5	12.6	182	6	US-10-953-349-14437	Sequence 14437, A	233	47.5	12.3	685	6	US-10-449-902-52111	Sequence 52211, A
161	48.5	12.6	182	6	US-10-953-349-16423	Sequence 16423, A	234	47.5	12.3	770	6	US-10-449-902-53211	Sequence 53211, A
162	48.5	12.6	233	6	US-10-953-349-16422	Sequence 16422, A	235	47.5	12.3	812	7	US-11-318-939-12	Sequence 12, Appl1
163	48.5	12.6	325	6	US-10-953-349-34908	Sequence 34908, A	236	47.5	12.3	1226	6	US-11-221-332-88	Sequence 88, Appl1
164	48.5	12.6	356	6	US-10-953-349-34907	Sequence 34907, A	237	47	12.2	122	6	US-10-953-349-49-0122	Sequence 40122, A
165	48.5	12.6	366	6	US-10-953-349-34906	Sequence 34906, A	238	47	12.2	138	7	US-11-293-697-9976	Sequence 3726, App
166	48.5	12.6	394	6	US-10-449-902-52497	Sequence 52497, A	239	47	12.2	211	7	US-11-293-697-2922	Sequence 2922, App
167	48.5	12.6	479	6	US-10-449-902-50413	Sequence 50413, A	240	47	12.2	249	6	US-10-449-902-36036	Sequence 36036, App
168	48.5	12.6	568	7	US-10-953-349-1060	Sequence 1060, App	241	47	12.2	250	6	US-10-953-349-48705	Sequence 38705, A
169	48.5	12.6	592	7	US-11-313-356-7	Sequence 7, Appl1	242	47	12.2	256	6	US-10-449-902-37045	Sequence 37045, A
170	48.5	12.6	609	6	US-10-953-349-1059	Sequence 1059, App	243	47	12.2	298	6	US-10-449-902-47300	Sequence 37300, A
171	48.5	12.6	632	6	US-10-953-349-1058	Sequence 1058, App	244	47	12.2	349	6	US-10-449-902-42470	Sequence 37470, A
172	48.5	12.6	663	7	US-11-293-697-3125	Sequence 3125, App	245	47	12.2	359	6	US-10-953-349-40751	Sequence 30751, A
173	48.5	12.6	778	7	US-11-293-697-3043	Sequence 3043, App	246	47	12.2	367	6	US-10-953-349-30749	Sequence 30749, A
174	48.5	12.6	1058	7	US-11-328-747-2	Sequence 2, Appl1	247	47	12.2	370	6	US-10-953-349-30749	Sequence 30749, A

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249	47	12.2	376	7	US-11-293-697-4044	Sequence 4044, Ap	322	46	11.9	141	6	US-10-953-349-14746	Sequence 14746, A
250	47	12.2	386	6	US-10-449-902-31448	Sequence 31448, A	323	46	11.9	142	6	US-10-449-902-33961	Sequence 33961, A
251	47	12.2	402	6	US-10-449-902-52508	Sequence 52508, A	324	46	11.9	145	6	US-10-953-349-6871	Sequence 6871, Ap
252	47	12.2	432	6	US-10-449-902-50765	Sequence 50765, A	325	46	11.9	154	6	US-10-953-349-25485	Sequence 25485, A
253	47	12.2	472	6	US-10-449-902-34596	Sequence 34596, A	326	46	11.9	157	6	US-10-449-902-33987	Sequence 33987, A
254	47	12.2	472	6	US-10-449-902-54375	Sequence 54375, A	327	46	11.9	185	6	US-10-953-349-6041	Sequence 6041, Ap
255	47	12.2	557	6	US-10-449-902-49568	Sequence 49568, A	328	46	11.9	198	7	US-11-293-697-3617	Sequence 3617, Ap
256	47	12.2	563	6	US-10-449-902-43452	Sequence 43452, A	329	46	11.9	221	6	US-10-449-902-44642	Sequence 44642, A
257	47	12.2	566	7	US-11-328-070-2	Sequence 2, App11	330	46	11.9	222	6	US-10-953-349-36283	Sequence 36283, A
258	47	12.2	577	6	US-10-449-902-52690	Sequence 52690, A	331	46	11.9	222	6	US-10-449-902-44476	Sequence 44476, A
259	47	12.2	765	7	US-11-165-586-36	Sequence 35, Ap11	332	46	11.9	234	6	US-10-449-902-42101	Sequence 42101, A
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261	47	12.2	783	6	US-10-514-535-11	Sequence 11, Ap11	334	46	11.9	269	6	US-10-449-902-34676	Sequence 34676, A
262	47	12.2	836	6	US-10-511-937-2988	Sequence 2868, Ap	335	46	11.9	278	6	US-10-953-349-10255	Sequence 10254, A
263	47	12.2	869	6	US-10-514-535-8	Sequence 8, App11	336	46	11.9	287	6	US-10-953-349-10254	Sequence 10253, A
264	47	12.2	972	6	US-10-449-902-41335	Sequence 41335, A	337	46	11.9	293	6	US-10-953-349-23190	Sequence 23190, A
265	47	12.2	1030	6	US-10-449-902-41538	Sequence 41538, A	338	46	11.9	302	6	US-10-449-902-47033	Sequence 47033, A
266	47	12.2	1084	6	US-10-449-902-41128	Sequence 41128, A	339	46	11.9	302	6	US-10-953-349-23189	Sequence 23189, A
267	47	12.2	1307	6	US-10-449-902-43546	Sequence 43546, A	340	46	11.9	305	6	US-10-449-902-36402	Sequence 36402, A
268	46.5	12.0	89	7	US-11-091-244A-27	Sequence 27, Ap11	341	46	11.9	307	6	US-10-953-349-23188	Sequence 23188, A
269	46.5	12.0	132	6	US-10-953-349-28941	Sequence 28941, A	342	46	11.9	309	6	US-10-953-349-10253	Sequence 10253, A
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271	46.5	12.0	158	6	US-10-953-349-28940	Sequence 28940, A	344	46	11.9	342	6	US-10-449-902-53268	Sequence 53268, A
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273	46.5	12.0	173	6	US-10-953-349-28939	Sequence 28939, A	346	46	11.9	397	6	US-10-449-902-28745	Sequence 28745, A
274	46.5	12.0	177	7	US-11-311-555-6	Sequence 6, App11	347	46	11.9	397	6	US-10-449-902-32018	Sequence 32018, A
275	46.5	12.0	177	7	US-11-311-561-6	Sequence 6, App11	348	46	11.9	398	6	US-10-523-475-2	Sequence 2, App11
276	46.5	12.0	177	7	US-11-101-316-156	Sequence 156, App	349	46	11.9	402	6	US-10-449-902-38700	Sequence 38700, A
277	46.5	12.0	199	6	US-10-953-349-29585	Sequence 29585, A	350	46	11.9	440	6	US-10-449-902-36400	Sequence 36400, A
278	46.5	12.0	205	6	US-10-953-349-17347	Sequence 17347, A	351	46	11.9	475	6	US-10-449-902-46012	Sequence 46012, A
279	46.5	12.0	211	6	US-10-953-349-12139	Sequence 12129, A	352	46	11.9	670	6	US-10-449-902-46043	Sequence 46043, A
280	46.5	12.0	274	6	US-10-953-349-33867	Sequence 33867, A	353	46	11.9	948	6	US-10-449-902-38350	Sequence 38350, A
281	46.5	12.0	296	6	US-10-953-349-12428	Sequence 12428, A	354	46	11.9	1037	7	US-11-259-133-12	Sequence 12, App1
282	46.5	12.0	303	6	US-10-953-349-33866	Sequence 33866, A	355	45.5	11.8	92	6	US-10-953-349-35115	Sequence 35115, A
283	46.5	12.0	315	6	US-10-953-349-12427	Sequence 12427, A	356	45.5	11.8	112	6	US-10-449-902-42240	Sequence 42240, A
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285	46.5	12.0	326	6	US-10-953-349-29584	Sequence 29584, A	358	45.5	11.8	228	6	US-10-449-902-54908	Sequence 54908, A
286	46.5	12.0	332	6	US-10-953-349-29584	Sequence 22584, A	359	45.5	11.8	229	7	US-11-101-316-48	Sequence 48, App1
287	46.5	12.0	339	6	US-10-953-349-12100	Sequence 34289, A	361	45.5	11.8	260	6	US-10-953-349-24763	Sequence 24763, A
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289	46.5	12.0	350	6	US-10-953-349-29583	Sequence 29583, A	363	45.5	11.8	319	7	US-11-246-999-37	Sequence 37, App1
290	46.5	12.0	353	6	US-10-449-902-29043	Sequence 29043, A	364	45.5	11.8	332	7	US-11-312-958-28	Sequence 28, App1
291	46.5	12.0	358	6	US-10-953-349-12426	Sequence 12426, A	365	45.5	11.8	344	7	US-11-293-697-4691	Sequence 4691, Ap
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294	46.5	12.0	399	6	US-10-449-902-56229	Sequence 56229, A	368	45.5	11.8	366	6	US-10-449-902-37472	Sequence 37472, A
295	46.5	12.0	437	6	US-10-953-349-36076	Sequence 36076, A	369	45.5	11.8	368	6	US-10-953-349-17519	Sequence 17519, A
296	46.5	12.0	460	6	US-10-449-902-37776	Sequence 37776, A	370	45.5	11.8	392	6	US-10-953-349-17518	Sequence 17518, A
297	46.5	12.0	467	6	US-10-953-349-20903	Sequence 30903, A	371	45.5	11.8	393	6	US-10-953-349-17517	Sequence 17517, A
298	46.5	12.0	467	6	US-10-449-902-31239	Sequence 31239, A	372	45.5	11.8	422	6	US-10-449-902-38536	Sequence 38536, A
299	46.5	12.0	467	6	US-10-449-902-8430	Sequence 48430, A	373	45.5	11.8	461	7	US-11-246-999-44	Sequence 44, App1
300	46.5	12.0	470	6	US-10-449-902-47609	Sequence 30902, A	374	45.5	11.8	493	7	US-11-246-999-119	Sequence 119, App
301	46.5	12.0	482	6	US-10-953-349-30901	Sequence 30901, A	375	45.5	11.8	493	7	US-10-449-902-51633	Sequence 51633, A
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303	46.5	12.0	493	6	US-10-449-902-35282	Sequence 35282, A	377	45.5	11.8	502	6	US-10-505-928-718	Sequence 718, App
304	46.5	12.0	493	6	US-10-449-902-35282	Sequence 35282, A	378	45.5	11.8	549	7	US-11-293-697-3270	Sequence 3270, Ap
305	46.5	12.0	523	6	US-10-449-902-46433	Sequence 46433, A	379	45.5	11.8	614	6	US-10-449-902-38493	Sequence 38493, A
306	46.5	12.0	523	6	US-10-449-902-37429	Sequence 43861, A	380	45.5	11.8	854	6	US-10-449-902-49014	Sequence 49014, A
307	46.5	12.0	543	6	US-10-449-902-41988	Sequence 41988, A	381	45.5	11.8	880	6	US-10-449-902-41116	Sequence 41116, A
308	46.5	12.0	552	6	US-10-509-131-50	Sequence 50, App1	382	45.5	11.8	949	6	US-10-953-349-12074	Sequence 12074, A
309	46.5	12.0	563	6	US-10-509-131-50	Sequence 40, App1	383	45.5	11.8	1056	6	US-10-449-902-41598	Sequence 41598, A
310	46.5	12.0	617	6	US-10-449-902-54152	Sequence 54152, A	384	45.5	11.8	1254	7	US-11-289-102-206	Sequence 206, App
311	46.5	12.0	741	6	US-10-449-902-54193	Sequence 54193, A	385	45	11.7	82	6	US-10-449-902-42198	Sequence 42198, A
312	46.5	12.0	782	6	US-10-449-902-52592	Sequence 52592, A	386	45	11.7	101	6	US-10-449-902-43519	Sequence 43519, A
313	46.5	12.0	863	6	US-10-449-902-43861	Sequence 43861, A	387	45	11.7	107	6	US-10-449-902-33987	Sequence 33987, A
314	46.5	12.0	901	6	US-10-449-902-54235	Sequence 54235, A	388	45	11.7	124	6	US-10-953-349-27444	Sequence 27444, A
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316	46.5	12.0	1039	6	US-10-449-902-41104	Sequence 41104, A	390	45	11.7	157	7	US-11-293-697-3270	Sequence 3270, Ap
317	46	11.9	65	6	US-10-449-902-38686	Sequence 38686, A	391	45	11.7	157	7	US-11-293-697-3270	Sequence 3270, Ap
318	46	11.9	65	6	US-10-449-902-39093	Sequence 39093, A	392	45	11.7	158	6	US-10-953-349-31068	Sequence 31068, A
319	46	11.9	112	6	US-10-953-349-14747	Sequence 14747, A	393	45	11.7	180	6	US-10-953-349-35862	Sequence 35862, A
320	46	11.9	130	6	US-10-953-349-36285	Sequence 36285, A	394	45	11.7	188	6	US-10-449-902-28646	Sequence 28646, A

395	45	11.7	231	6	US-10-511-937-2491	Sequence 2491, Ap	471	44.5	11.5	393	6	US-10-953-349-19755	Sequence 19755, A
397	45	11.7	258	6	US-10-953-349-31067	Sequence 31067, A	472	44.5	11.5	396	6	US-10-953-349-29290	Sequence 29290, A
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399	45	11.7	295	6	US-10-449-902-55243	Sequence 55243, A	474	44.5	11.5	411	6	US-10-953-349-5541	Sequence 5541, Ap
400	45	11.7	313	6	US-10-449-902-55257	Sequence 55257, A	475	44.5	11.5	418	6	US-10-953-349-5540	Sequence 5540, Ap
401	45	11.7	323	6	US-10-449-902-37109	Sequence 37109, A	476	44.5	11.5	421	6	US-10-449-902-29663	Sequence 29663, A
402	45	11.7	323	6	US-10-449-902-37213	Sequence 37213, A	477	44.5	11.5	442	6	US-10-449-902-30089	Sequence 30089, A
403	45	11.7	323	6	US-10-449-902-40689	Sequence 40689, A	478	44.5	11.5	447	6	US-10-449-902-52573	Sequence 52573, A
404	45	11.7	352	6	US-10-449-902-49509	Sequence 49509, A	479	44.5	11.5	460	6	US-10-449-902-53906	Sequence 53906, A
405	45	11.7	352	6	US-10-449-902-51901	Sequence 51901, A	480	44.5	11.5	463	6	US-10-449-902-53964	Sequence 53964, A
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407	45	11.7	380	6	US-10-449-902-43338	Sequence 43338, A	482	44.5	11.5	492	6	US-10-953-349-5539	Sequence 5539, Ap
408	45	11.7	383	7	US-11-293-697-3476	Sequence 3476, Ap	483	44.5	11.5	511	6	US-10-449-902-54006	Sequence 54006, A
409	45	11.7	390	7	US-11-289-102-232	Sequence 232, App	484	44.5	11.5	512	6	US-10-449-902-44440	Sequence 44440, A
410	45	11.7	402	6	US-10-449-902-40489	Sequence 40489, A	485	44.5	11.5	582	7	US-11-313-356-6	Sequence 6, Appl1
411	45	11.7	437	6	US-10-449-902-34619	Sequence 34619, A	486	44.5	11.5	587	6	US-10-449-902-55652	Sequence 44652, A
412	45	11.7	437	6	US-10-449-902-40821	Sequence 40821, A	487	44.5	11.5	610	6	US-10-449-902-45662	Sequence 35664, A
413	45	11.7	437	6	US-10-449-902-50156	Sequence 50156, A	488	44.5	11.5	628	6	US-10-449-902-56515	Sequence 35515, A
414	45	11.7	474	6	US-10-449-902-40842	Sequence 40842, A	489	44.5	11.5	636	6	US-10-449-902-47933	Sequence 47933, A
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703	43	11.1	379	6	US-10-449-902-53768	Sequence 53768, A	778	42.5	11.0	310	6	US-10-953-349-24732	Sequence 24732, A
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705	43	11.1	382	6	US-10-953-349-4126	Sequence 4126, Ap	780	42.5	11.0	331	6	US-10-953-349-25079	Sequence 25079, A
706	43	11.1	382	6	US-10-953-349-7130	Sequence 7130, Ap	781	42.5	11.0	337	6	US-10-471-571A-3054	Sequence 3054, Ap
707	43	11.1	391	6	US-10-953-349-2390	Sequence 2390, Ap	782	42.5	11.0	343	6	US-10-953-349-7434	Sequence 7434, Ap
708	43	11.1	404	6	US-10-953-349-34624	Sequence 34624, A	783	42.5	11.0	352	6	US-10-953-349-31883	Sequence 31883, A
709	43	11.1	407	6	US-10-449-902-31723	Sequence 31723, A	784	42.5	11.0	356	6	US-10-953-349-25078	Sequence 25078, A
710	43	11.1	407	6	US-10-449-902-39172	Sequence 39172, A	785	42.5	11.0	357	6	US-10-449-902-33521	Sequence 33521, A
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712	43	11.1	424	6	US-10-953-349-3739	Sequence 3739, Ap	787	42.5	11.0	364	6	US-10-449-902-42512	Sequence 42512, A
713	43	11.1	435	6	US-10-449-902-44198	Sequence 44198, A	788	42.5	11.0	365	7	US-11-293-697-3792	Sequence 3792, Ap
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722	43	11.1	512	6	US-10-449-902-42535	Sequence 42535, A	797	42.5	11.0	394	7	US-11-293-697-3423	Sequence 3423, Ap
723	43	11.1	513	6	US-10-471-571A-3496	Sequence 3496, Ap	798	42.5	11.0	410	6	US-10-449-902-48064	Sequence 48064, A
724	43	11.1	542	6	US-10-449-902-43422	Sequence 43422, A	799	42.5	11.0	412	6	US-10-449-902-31028	Sequence 31028, A
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731	43	11.1	719	6	US-10-449-902-56264	Sequence 56264, A	806	42.5	11.0	456	7	US-11-264-784-38	Sequence 38, Appl
732	43	11.1	756	7	US-11-289-102-324	Sequence 324, Ap	807	42.5	11.0	456	7	US-11-264-737-43	Sequence 43, Appl
733	43	11.1	760	6	US-10-511-937-2421	Sequence 2421, Ap	808	42.5	11.0	456	7	US-11-265-761-38	Sequence 38, Appl
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736	43	11.1	913	6	US-10-449-902-41112	Sequence 41112, A	811	42.5	11.0	495	6	US-10-953-349-8187	Sequence 8187, Ap
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739	42.5	11.0	92	6	US-10-511-937-2494	Sequence 2494, Ap	814	42.5	11.0	502	6	US-10-449-902-49977	Sequence 49977, A
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741	42.5	11.0	92	6	US-10-511-937-3013	Sequence 3013, Ap	816	42.5	11.0	513	6	US-10-953-349-9283	Sequence 9283, Ap
742	42.5	11.0	93	6	US-10-449-902-30322	Sequence 30322, A	817	42.5	11.0	525	7	US-11-293-697-7714	Sequence 7714, Ap
743	42.5	11.0	93	6	US-10-449-902-45411	Sequence 45411, A	818	42.5	11.0	530	6	US-10-471-571A-4550	Sequence 4550, Ap
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746	42.5	11.0	153	6	US-10-953-349-36584	Sequence 36584, A	820	42.5	11.0	611	6	US-10-449-902-51769	Sequence 51769, Ap
747	42.5	11.0	155	7	US-11-293-697-4632	Sequence 4632, Ap	821	42.5	11.0	643	6	US-10-449-902-44338	Sequence 44338, A
748	42.5	11.0	166	6	US-10-449-902-39444	Sequence 39444, A	822	42.5	11.0	660	7	US-11-293-697-4411	Sequence 4411, Ap
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843	42	10.9	101	6	US-10-449-902-37473	Sequence 37473, A	916	42	10.9	335	6	US-10-953-349-7041	Sequence 7041, Ap
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848	42	10.9	117	6	US-10-953-349-30144	Sequence 30144, A	921	42	10.9	334	6	US-10-953-349-32466	Sequence 32466, A
849	42	10.9	120	6	US-10-449-902-50659	Sequence 50659, A	922	42	10.9	337	6	US-10-953-349-17925	Sequence 17925, A
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867	42	10.9	186	6	US-10-449-902-40629	Sequence 40629, A	940	42	10.9	570	6	US-10-449-902-51109	Sequence 51709, A
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871	42	10.9	198	6	US-10-449-902-50143	Sequence 50143, A	944	42	10.9	566	6	US-10-449-902-39151	Sequence 39151, A
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873	42	10.9	236	6	US-10-471-571A-720	Sequence 720, App	946	42	10.9	609	6	US-10-471-571A-5262	Sequence 5262, Ap
874	42	10.9	243	6	US-10-953-349-752	Sequence 752, App	947	42	10.9	610	6	US-10-449-902-5259	Sequence 52589, A
875	42	10.9	245	6	US-10-449-902-31862	Sequence 31862, A	948	42	10.9	611	7	US-11-321-421-81	Sequence 81, App1
876	42	10.9	251	6	US-10-953-349-3751	Sequence 751, App	949	42	10.9	624	6	US-10-449-902-38106	Sequence 38106, A
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882	42	10.9	266	6	US-10-449-902-48255	Sequence 48255, A	955	42	10.9	648	6	US-10-953-349-11319	Sequence 11319, A
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895	42	10.9	318	6	US-10-449-902-35906	Sequence 35906, A	968	42	10.9	816	6	US-10-449-902-53709	Sequence 53709, A
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GenCore version 5.1.9
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OM protein - protein search, using sw model

Run on: June 15, 2006, 07:19:00 ; Search time 50 Seconds
(without alignments)
127.795 Million cell updates/sec

Title: US-10-063-532-30

Perfect score: 386
Sequence: 1 MULTITLILLILLKSGCLEW.....PMTCSQAPRGKGVDCG 73

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 650591 seqs, 87530628 residues

Total number of hits satisfying chosen parameters: 650591

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 1500 summaries

Database :

Issued Patents AA:*
1: /EMC_Celerra_SIDS3/prodata/2/iaa/5 COMB pep:*
2: /EMC_Celerra_SIDS3/prodata/2/iaa/6 COMB pep:*
3: /EMC_Celerra_SIDS3/prodata/2/iaa/7 COMB pep:*
4: /EMC_Celerra_SIDS3/prodata/2/iaa/H COMB pep:*
5: /EMC_Celerra_SIDS3/prodata/2/iaa/PCUS COMB pep:*
6: /EMC_Celerra_SIDS3/prodata/2/iaa/RE COMB pep:*
7: /EMC_Celerra_SIDS3/prodata/2/iaa/Backfile1 pep:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	386	100.0	73	2	US-10-012-231A-22
2	386	100.0	73	2	US-10-015-389A-22
3	386	100.0	73	2	US-10-006-768A-22
4	386	100.0	73	2	US-10-015-671A-22
5	386	100.0	73	2	US-10-015-933A-22
6	386	100.0	73	2	US-10-011-833A-22
7	386	100.0	73	2	US-10-006-041A-22
8	386	100.0	73	2	US-10-012-064A-22
9	386	100.0	73	2	US-10-015-392A-22
10	386	100.0	73	3	US-10-011-795B-22
11	386	100.0	73	3	US-10-015-386A-22
12	386	100.0	73	3	US-10-012-121A-22
13	386	100.0	73	3	US-10-006-485A-22
14	386	100.0	73	3	US-10-006-746A-22
15	386	100.0	73	3	US-10-012-752A-22
16	386	100.0	73	3	US-10-017-253A-22
17	386	100.0	73	3	US-10-015-519A-22
18	386	100.0	73	3	US-10-015-715A-22
19	386	100.0	73	3	US-10-007-236A-22
20	77	18.9	312	2	US-09-270-767-44974
21	72	18.7	884	1	US-08-465-976A-2
22	72	18.7	884	1	US-08-982-412-2
23	68	17.6	930	2	US-09-369-364A-2
24	67.5	17.5	702	2	US-09-917-254-94
25	63.5	16.5	282	2	US-09-461-912A-38
26	62.5	16.2	270	1	US-08-978-404B-8

27	62.5	16.2	307	2	US-09-252-991A-32304	Sequence 32304, A
28	62	16.1	484	2	US-09-248-796A-17959	Sequence 17959, A
29	62	16.1	896	2	US-09-585-858-17	Sequence 17, App1
30	62	16.1	896	2	US-10-270-878-17	Sequence 17, App1
31	62	16.1	1238	2	US-09-904-065-2	Sequence 2, App1
32	62	16.1	1238	2	US-09-904-065-14	Sequence 14, App1
33	62	16.1	1240	2	US-08-680-326-37	Sequence 37, App1
34	62	16.1	1240	2	US-09-904-065-4	Sequence 4, App1
35	62	16.1	1240	2	US-09-904-065-15	Sequence 15, App1
36	61.5	15.9	578	2	US-09-503-172A-2	Sequence 2, App1
37	61	15.8	152	2	US-09-800-729-84	Sequence 84, App1
38	60.5	15.7	136	2	US-10-094-749-2654	Sequence 2654, Ap
39	60.5	15.7	274	1	US-08-484-905-105	Sequence 105, App
40	60.5	15.7	274	1	US-08-484-905-107	Sequence 107, App
41	60.5	15.7	274	1	US-08-484-905-108	Sequence 108, App
42	60.5	15.7	274	2	US-08-481-985B-105	Sequence 105, App
43	60.5	15.7	274	2	US-08-481-985B-107	Sequence 107, App
44	60.5	15.7	274	2	US-08-481-985B-108	Sequence 108, App
45	60.5	15.7	274	2	US-08-370-476-105	Sequence 105, App
46	60.5	15.7	274	2	US-08-370-476-107	Sequence 107, App
47	60.5	15.7	274	2	US-08-370-476-108	Sequence 108, App
48	60.5	15.7	341	2	US-08-890-719-38	Sequence 38, App1
49	60.5	15.7	365	1	US-08-484-905-97	Sequence 97, App1
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51	60.5	15.7	365	1	US-08-484-905-99	Sequence 99, App1
52	60.5	15.7	365	1	US-08-484-905-100	Sequence 100, App
53	60.5	15.7	365	1	US-08-484-905-101	Sequence 101, App
54	60.5	15.7	365	1	US-08-484-905-102	Sequence 102, App
55	60.5	15.7	365	1	US-08-484-905-103	Sequence 103, App
56	60.5	15.7	365	1	US-08-484-905-104	Sequence 104, App
57	60.5	15.7	365	2	US-08-481-985B-97	Sequence 97, App1
58	60.5	15.7	365	2	US-08-481-985B-98	Sequence 98, App1
59	60.5	15.7	365	2	US-08-481-985B-99	Sequence 99, App1
60	60.5	15.7	365	2	US-08-481-985B-100	Sequence 100, App
61	60.5	15.7	365	2	US-08-481-985B-101	Sequence 101, App
62	60.5	15.7	365	2	US-08-481-985B-102	Sequence 102, App
63	60.5	15.7	365	2	US-08-481-985B-103	Sequence 103, App
64	60.5	15.7	365	2	US-08-481-985B-104	Sequence 104, App
65	60.5	15.7	365	2	US-08-652-265-23	Sequence 23, App1
66	60.5	15.7	365	2	US-08-834-497A-23	Sequence 23, App1
67	60.5	15.7	365	2	US-08-370-476-97	Sequence 97, App1
68	60.5	15.7	365	2	US-08-370-476-98	Sequence 98, App1
69	60.5	15.7	365	2	US-08-370-476-99	Sequence 99, App1
70	60.5	15.7	365	2	US-08-370-476-100	Sequence 100, App
71	60.5	15.7	365	2	US-08-370-476-101	Sequence 101, App
72	60.5	15.7	365	2	US-08-370-476-102	Sequence 102, App
73	60.5	15.7	365	2	US-08-370-476-103	Sequence 103, App
74	60.5	15.7	365	2	US-08-370-476-104	Sequence 104, App
75	60.5	15.7	365	2	US-09-503-444A-23	Sequence 23, App1
76	60.5	15.5	141	1	US-08-627-173-19	Sequence 19, App1
77	60	15.5	141	1	US-08-535-882A-19	Sequence 19, App1
78	60	15.5	141	2	US-08-516-424A-5	Sequence 5, App1
79	60	15.5	141	2	US-09-005-546-19	Sequence 19, App1
80	60	15.5	141	2	US-08-477-669-5	Sequence 5, App1
81	60	15.5	141	2	US-10-128-581-24	Sequence 24, App1
82	60	15.5	141	2	US-08-832-443C-19	Sequence 19, App1
83	60	15.5	141	2	US-10-463-699-26	Sequence 26, App1
84	60	15.5	281	2	US-09-576-594-834	Sequence 834, App
85	59.5	15.4	446	2	US-09-538-092-971	Sequence 971, App
86	59.5	15.4	1405	1	US-07-853-913-2	Sequence 2, App1
87	59	15.3	1405	1	US-07-923-692C-8	Sequence 8, App1
88	59	15.3	141	1	US-08-170-095B-1	Sequence 1, App1
89	59	15.3	141	1	US-08-184-237-8	Sequence 8, App1
90	59	15.3	141	1	US-08-240-712-17	Sequence 17, App1
91	59	15.3	141	1	US-08-240-712-26	Sequence 26, App1
92	59	15.3	141	1	US-08-240-712-27	Sequence 27, App1
93	59	15.3	141	1	US-08-396-866-1	Sequence 1, App1
94	59	15.3	141	1	US-08-443-890-17	Sequence 17, App1
95	59	15.3	141	1	US-08-443-890-26	Sequence 26, App1
96	59	15.3	141	1	US-08-443-890-27	Sequence 27, App1
97	59	15.3	141	1	US-08-484-686B-69	Sequence 69, App1
98	59	15.3	141	1	US-08-432-071B-2	Sequence 2, App1
99	59	15.3	141	1	US-08-627-173-16	Sequence 16, App1

100	59	15.3	141	1	US-08-482-920-8	Sequence 8, Appli	173	57.5	14.9	74	3	US-10-017-253A-189	Sequence 189, App
101	59	15.3	141	1	US-08-535-882A-16	Sequence 16, Appli	174	57.5	14.9	74	3	US-10-015-519A-189	Sequence 189, App
102	59	15.3	141	1	US-08-619-708A-5	Sequence 5, Appli	175	57.5	14.9	74	3	US-10-015-715A-189	Sequence 189, App
103	59	15.3	141	2	US-08-316-424A-2	Sequence 2, Appli	176	57.5	14.9	74	3	US-10-007-236A-189	Sequence 189, App
104	59	15.3	141	2	US-08-381-175A-1	Sequence 1, Appli	177	57.5	14.9	385	2	US-09-163-881-16	Sequence 16, Appli
105	59	15.3	141	2	US-08-381-175A-7	Sequence 7, Appli	178	57.5	14.9	385	2	US-09-345-881-16	Sequence 16, Appli
106	59	15.3	141	2	US-08-484-341-8	Sequence 8, Appli	179	57.5	14.9	385	3	US-10-000-512-14	Sequence 14, Appli
107	59	15.3	141	2	US-09-005-546-16	Sequence 16, Appli	180	57.5	14.9	471	2	US-09-893-737-186	Sequence 186, App
108	59	15.3	141	2	US-09-230-603-1	Sequence 1, Appli	181	57.5	14.9	652	2	US-09-110-116-1	Sequence 1, Appli
109	59	15.3	141	2	US-08-463-160B-70	Sequence 70, Appli	182	57.5	14.9	652	2	US-08-956-322-2	Sequence 2, Appli
110	59	15.3	141	2	US-09-058-562-17	Sequence 17, Appli	183	57	14.8	107	2	US-10-002-344A-172	Sequence 172, App
111	59	15.3	141	2	US-09-058-562-24	Sequence 24, Appli	184	57	14.8	107	2	US-10-002-344A-173	Sequence 173, App
112	59	15.3	141	2	US-09-058-562-25	Sequence 25, Appli	185	57	14.8	119	2	US-09-303-518D-468	Sequence 468, App
113	59	15.3	141	2	US-09-031-361-1	Sequence 1, Appli	186	57	14.8	144	2	US-09-439-113-480	Sequence 480, App
114	59	15.3	141	2	US-08-483-502-8	Sequence 8, Appli	187	57	14.8	144	2	US-09-636-115-480	Sequence 480, App
115	59	15.3	141	2	US-09-352-078-10	Sequence 10, Appli	188	57	14.8	144	2	US-09-685-166A-480	Sequence 480, App
116	59	15.3	141	2	US-08-983-564A-31	Sequence 31, Appli	189	57	14.8	144	2	US-09-679-426-480	Sequence 480, App
117	59	15.3	141	2	US-08-477-669-2	Sequence 2, Appli	190	57	14.8	144	2	US-09-759-143-480	Sequence 480, App
118	59	15.3	141	2	US-09-726-651A-8	Sequence 8, Appli	191	57	14.8	144	2	US-09-651-236-480	Sequence 480, App
119	59	15.3	141	2	US-10-128-581-21	Sequence 21, Appli	192	57	14.8	144	2	US-09-657-279-480	Sequence 480, App
120	59	15.3	141	2	US-09-787-216A-5	Sequence 5, Appli	193	57	14.8	144	2	US-10-012-896-480	Sequence 480, App
121	59	15.3	141	2	US-08-832-443C-16	Sequence 16, Appli	194	57	14.8	144	3	US-10-144-678A-480	Sequence 480, App
122	59	15.3	141	2	US-10-463-699-23	Sequence 23, Appli	195	57	14.8	209	2	US-09-303-518D-474	Sequence 474, App
123	59	15.3	141	2	US-10-085-853-31	Sequence 31, Appli	196	57	14.8	348	2	US-09-248-796A-20983	Sequence 20983, A
124	59	15.3	141	2	PCT-US92-09752-17	Sequence 17, Appli	197	57	14.8	472	2	US-09-303-518D-476	Sequence 476, App
125	59	15.3	141	5	PCT-US92-09752-26	Sequence 26, Appli	198	57	14.8	472	2	US-09-303-518D-476	Sequence 476, App
126	59	15.3	141	5	PCT-US92-09752-27	Sequence 27, Appli	199	57	14.8	710	2	US-09-134-000C-6451	Sequence 6451, Ap
127	59	15.3	141	5	PCT-US92-09752-27	Sequence 27, Appli	200	57	14.8	953	2	US-09-252-991A-30039	Sequence 30039, A
128	59	15.3	142	1	US-08-550-715-2	Sequence 2, Appli	201	56.5	14.6	151	1	US-08-815-175-1	Sequence 1, Appli
129	59	15.3	142	1	US-08-550-715-3	Sequence 3, Appli	202	56.5	14.6	151	1	US-09-991-181-612	Sequence 412, App
130	59	15.3	284	2	US-09-269-592-4	Sequence 4, Appli	203	56.5	14.6	151	2	US-09-990-444-412	Sequence 412, App
131	59	15.3	284	2	US-08-453-485E-111	Sequence 11, App	204	56.5	14.6	151	2	US-09-997-333-412	Sequence 412, App
132	59	15.3	285	2	US-09-269-592-11	Sequence 11, Appli	205	56.5	14.6	151	2	US-09-992-598-412	Sequence 412, App
133	59	15.3	333	2	US-09-170-496D-8	Sequence 8, Appli	206	56.5	14.6	151	3	US-09-989-735-412	Sequence 412, App
134	59	15.3	333	2	US-09-170-496D-168	Sequence 168, App	207	56.5	14.6	151	3	US-09-989-726-412	Sequence 412, App
135	59	15.3	333	2	US-09-826-509-509	Sequence 509, App	208	56.5	14.6	151	3	US-09-997-514-412	Sequence 412, App
136	59	15.3	465	2	US-10-094-749-1663	Sequence 1663, Ap	209	56.5	14.6	151	3	US-09-989-728-412	Sequence 412, App
137	59	15.3	472	2	US-09-303-518D-472	Sequence 472, App	210	56.5	14.6	151	3	US-09-997-349-412	Sequence 412, App
138	59	15.3	573	2	US-09-269-592-18	Sequence 18, Appli	211	56.5	14.6	151	3	US-09-997-653-412	Sequence 412, App
139	58.5	15.2	273	2	US-09-902-540-1834	Sequence 1834, A	212	56.5	14.6	151	3	US-09-989-993A-412	Sequence 412, App
140	58.5	15.2	274	1	US-08-484-905-106	Sequence 106, App	213	56.5	14.6	209	2	US-09-328-352-8207	Sequence 8207, Ap
141	58.5	15.2	274	1	US-08-481-985B-106	Sequence 106, App	214	56	14.5	121	3	US-09-647-544A-150	Sequence 150, App
142	58.5	15.2	274	2	US-08-370-476-106	Sequence 106, App	215	56	14.5	267	2	US-09-339-913-57	Sequence 57, Appli
143	58.5	15.2	331	2	US-09-033-525-2	Sequence 2, Appli	216	56	14.5	267	2	US-09-350-614-57	Sequence 57, Appli
144	58	15.0	87	2	US-09-489-039A-12313	Sequence 12313, A	217	56	14.5	282	2	US-09-247-890-16	Sequence 16, Appli
145	58	15.0	123	2	US-09-893-727-90	Sequence 90, Appli	218	56	14.5	282	2	US-09-724-969-16	Sequence 16, Appli
146	58	15.0	329	2	US-09-892-074-2	Sequence 2, Appli	219	56	14.5	282	2	US-09-724-852-16	Sequence 16, Appli
147	58	15.0	424	2	US-09-341-446B-6	Sequence 6, Appli	220	56	14.5	346	5	PCT-US96-10602-2	Sequence 2, Appli
148	58	15.0	424	2	US-09-341-446B-8	Sequence 8, Appli	221	56	14.5	550	2	US-09-344-510B-4	Sequence 4, Appli
149	58	15.0	427	2	US-09-341-446B-4	Sequence 4, Appli	222	56	14.5	579	2	US-10-094-749-1884	Sequence 1884, Ap
150	58	15.0	432	2	US-09-999-833A-90	Sequence 90, Appli	223	56	14.5	864	1	US-08-620-694A-2	Sequence 2, Appli
151	58	15.0	432	2	US-10-020-445A-90	Sequence 90, Appli	224	56	14.5	864	2	US-09-022-355-2	Sequence 2, Appli
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156	58	15.0	432	3	US-10-013-917A-90	Sequence 90, Appli	229	56	14.5	864	2	US-09-022-259-2	Sequence 2, Appli
157	58	15.0	642	2	US-09-252-991A-29360	Sequence 29360, A	230	56	14.5	864	2	US-09-022-357-2	Sequence 2, Appli
158	57.5	14.9	74	2	US-10-012-231A-189	Sequence 189, App	231	56	14.5	864	2	US-09-549-679-2	Sequence 2, Appli
159	57.5	14.9	74	2	US-10-015-389A-189	Sequence 189, App	232	56	14.5	864	3	US-09-468-728-2	Sequence 2, Appli
160	57.5	14.9	74	2	US-10-006-768A-189	Sequence 189, App	233	56	14.5	1014	2	US-09-344-510B-3	Sequence 3, Appli
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163	57.5	14.9	74	2	US-10-011-833A-189	Sequence 189, App	236	55	14.2	98	2	US-09-513-999C-6216	Sequence 6216, Ap
164	57.5	14.9	74	2	US-10-006-041A-189	Sequence 189, App	237	55	14.2	103	2	US-09-413-814-38	Sequence 38, Appli
165	57.5	14.9	74	2	US-10-012-064A-189	Sequence 189, App	238	55	14.2	261	2	US-09-538-032-318	Sequence 318, App
166	57.5	14.9	74	3	US-10-015-392A-189	Sequence 189, App	239	55	14.2	306	2	US-10-104-034-7990	Sequence 2990, Ap
167	57.5	14.9	74	3	US-10-011-795B-189	Sequence 189, App	240	55	14.2	355	2	US-09-489-049A-9302	Sequence 9302, Ap
168	57.5	14.9	74	3	US-10-015-386A-189	Sequence 189, App	241	55	14.2	381	2	US-09-673-395A-441	Sequence 441, App
169	57.5	14.9	74	3	US-10-012-121A-189	Sequence 189, App	242	55	14.2	410	2	US-09-252-991A-28155	Sequence 28155, A
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171	57.5	14.9	74	3	US-10-006-746A-189	Sequence 189, App	244	55	14.2	802	2	US-09-816-760-2	Sequence 2, Appli
172	57.5	14.9	74	3	US-10-012-752A-189	Sequence 189, App	245	55	14.2	802	2	US-09-838-561-2	Sequence 2, Appli

246	54.5	14.1	81	2	US-08-981-739-135	Sequence 135, App	319	52.5	13.6	101	1	US-09-131-995-2	Sequence 2, Appl
247	54.5	14.1	81	2	US-09-128-026-135	Sequence 135, App	320	52.5	13.6	101	1	US-08-832-0878-2	Sequence 2, Appl
248	54.5	14.1	81	2	US-09-220-616-135	Sequence 135, App	321	52.5	13.6	101	2	US-08-851-350-34	Sequence 34, Appl
249	54.5	14.1	81	2	US-09-220-527-135	Sequence 135, App	322	52.5	13.6	101	2	US-09-132-154-2	Sequence 2, Appl
250	54.5	14.1	102	2	US-09-621-976-5427	Sequence 5427, Ap	323	52.5	13.6	101	2	US-08-924-2878-34	Sequence 34, Appl
251	54.5	14.1	147	2	US-09-482-273-209	Sequence 209, App	324	52.5	13.6	101	2	US-08-643-219-5	Sequence 5, Appl
252	54.5	14.1	205	2	US-09-252-991A-18339	Sequence 18239, A	325	52.5	13.6	104	1	US-09-131-995-5	Sequence 5, Appl
253	54.5	14.1	351	1	US-08-468-012A-2	Sequence 2, Appl	326	52.5	13.6	104	1	US-08-832-0878-5	Sequence 5, Appl
254	54.5	14.1	351	2	US-09-054-989-2	Sequence 2, Appl	327	52.5	13.6	104	2	US-09-132-154-5	Sequence 5, Appl
255	54.5	14.1	409	2	US-09-252-991A-30461	Sequence 30461, A	328	52.5	13.6	213	2	US-09-252-991A-1497	Sequence 1497, A
256	54.5	14.1	411	2	US-09-902-540-15186	Sequence 15186, A	329	52.5	13.6	216	2	US-09-252-991A-23719	Sequence 23719, A
257	54.5	14.1	942	2	US-10-101-464A-911	Sequence 911, App	330	52.5	13.6	318	1	US-08-537-942A-1	Sequence 1, Appl
258	54.5	14.1	1495	2	US-08-522-7268-1	Sequence 1, Appl	331	52.5	13.6	318	2	US-08-997-252A-1	Sequence 1, Appl
259	54.5	14.1	1495	2	US-09-337-384-1	Sequence 1, Appl	332	52.5	13.6	318	2	US-09-517-739-1	Sequence 1, Appl
260	54	14.0	233	2	US-09-198-452A-394	Sequence 394, App	333	52.5	13.6	318	2	US-09-835-720A-1	Sequence 1, Appl
261	54	14.0	264	2	US-09-856-319B-2	Sequence 2, Appl	334	52.5	13.6	317	2	US-08-445-515-58	Sequence 58, Appl
262	54	14.0	266	2	US-09-248-796A-18478	Sequence 18478, A	335	52.5	13.6	340	2	US-08-445-515-56	Sequence 56, Appl
263	54	14.0	267	2	US-09-949-016-9575	Sequence 9575, Ap	336	52.5	13.6	350	2	US-09-270-767-47560	Sequence 47560, A
264	54	14.0	291	2	US-09-198-452A-624	Sequence 624, App	337	52.5	13.6	362	2	US-09-740-288A-34	Sequence 34, Appl
265	54	14.0	291	2	US-09-438-185A-584	Sequence 584, App	338	52.5	13.6	393	2	US-09-252-991A-33055	Sequence 32055, A
266	54	14.0	365	2	US-09-438-185A-379	Sequence 379, App	339	52.5	13.6	412	2	US-09-027-064-4	Sequence 4, Appl
267	54	14.0	450	2	US-09-071-434-1	Sequence 1, Appl	340	52.5	13.6	412	2	US-09-271-815-4	Sequence 4, Appl
268	54	14.0	450	2	US-09-919-039-348	Sequence 348, App	341	52.5	13.6	458	3	US-09-946-893C-4	Sequence 4, Appl
269	54	14.0	570	2	US-09-489-039A-9421	Sequence 9421, Ap	342	52.5	13.6	497	2	US-09-252-991A-17412	Sequence 17412, A
270	54	14.0	612	2	US-09-252-991A-17516	Sequence 17516, A	343	52.5	13.6	519	2	US-09-538-092-1292	Sequence 1292, Ap
271	53.5	13.9	76	2	US-10-178-213-404	Sequence 404, App	344	52.5	13.6	520	2	US-09-902-540-14818	Sequence 14818, A
272	53.5	13.9	146	2	US-09-893-737-222	Sequence 222, App	345	52.5	13.6	553	3	US-07-683-957B-3	Sequence 3, Appl
273	53.5	13.9	201	2	US-09-270-767-33463	Sequence 33463, A	346	52.5	13.6	568	3	US-09-946-893C-5	Sequence 5, Appl
274	53.5	13.9	201	2	US-09-270-767-48680	Sequence 48680, A	347	52.5	13.6	570	3	US-09-946-893C-8	Sequence 8, Appl
275	53.5	13.9	338	2	US-09-385-219A-12	Sequence 12, App	348	52.5	13.6	575	3	US-09-946-893C-6	Sequence 6, Appl
276	53.5	13.9	359	2	US-09-668-097A-28	Sequence 28, Appl	349	52.5	13.6	713	2	US-09-949-016-9993	Sequence 9983, Ap
277	53.5	13.9	1058	1	US-08-247-904B-14	Sequence 14, Appl	350	52.5	13.6	733	2	US-09-328-352-4406	Sequence 4406, Ap
278	53.5	13.9	1058	2	US-08-767-942A-15	Sequence 15, Appl	351	52.5	13.6	780	1	US-08-469-486-54	Sequence 54, Appl
279	53.5	13.9	1058	2	US-09-538-092-985	Sequence 985, App	352	52.5	13.6	790	3	US-09-657-431A-1	Sequence 1, Appl
280	53.5	13.9	1280	2	US-09-252-991A-18001	Sequence 18001, A	353	52.5	13.6	790	3	US-08-643-219-1	Sequence 1, Appl
281	53	13.7	27	1	US-08-652-450A-6	Sequence 6, Appl	354	52.5	13.6	791	1	US-08-643-219-1	Sequence 1, Appl
282	53	13.7	35	1	US-08-652-450A-5	Sequence 5, Appl	355	52.5	13.6	791	1	US-09-131-995-1	Sequence 1, Appl
283	53	13.7	62	2	US-09-621-976-7622	Sequence 7622, Ap	356	52.5	13.6	791	1	US-08-832-087B-1	Sequence 1, Appl
284	53	13.7	85	2	US-09-252-991A-23827	Sequence 23827, A	357	52.5	13.6	791	2	US-08-851-350-1	Sequence 1, Appl
285	53	13.7	145	2	US-09-252-991A-30951	Sequence 30951, A	358	52.5	13.6	791	2	US-09-132-154-1	Sequence 1, Appl
286	53	13.7	322	2	US-09-252-991A-31608	Sequence 31608, A	359	52.5	13.6	791	2	US-08-991-761A-6	Sequence 6, Appl
287	53	13.7	405	2	US-09-134-000C-5472	Sequence 5472, Ap	360	52.5	13.6	791	2	US-08-924-287A-1	Sequence 1, Appl
288	53	13.7	409	2	US-10-104-047-3638	Sequence 3638, Ap	361	52.5	13.6	791	2	US-10-360-101-257	Sequence 257, App
289	53	13.7	415	2	US-09-949-016-10195	Sequence 10195, A	362	52.5	13.6	810	1	US-07-854-603-2	Sequence 2, Appl
290	53	13.7	535	2	US-09-252-991A-21805	Sequence 21805, A	363	52.5	13.6	810	1	US-08-147-000B-29	Sequence 29, Appl
291	53	13.7	792	2	US-09-252-991A-25776	Sequence 25776, A	364	52.5	13.6	810	2	US-09-086-514-1	Sequence 1, Appl
292	53	13.7	886	2	US-09-583-110-4270	Sequence 4270, Ap	365	52.5	13.6	810	2	US-09-192-012-5	Sequence 5, Appl
293	53	13.7	911	2	US-09-107-433-4987	Sequence 4987, Ap	366	52.5	13.6	810	2	US-09-403-736-1	Sequence 1, Appl
294	53	13.7	913	2	US-09-252-991A-29362	Sequence 29362, A	367	52.5	13.6	810	2	US-09-701-265-1	Sequence 1, Appl
295	53	13.7	1038	2	US-09-949-002-109	Sequence 309, App	368	52.5	13.6	810	3	US-09-946-893C-2	Sequence 2, Appl
296	53	13.7	2362	2	US-09-949-016-8985	Sequence 8985, Ap	369	52.5	13.6	810	7	5200340-8	Patent No. 5200340
297	53	13.7	4544	1	US-08-469-486-52	Sequence 52, Appl	370	52.5	13.6	814	1	US-08-750-711-1	Sequence 1, Appl
298	53	13.7	4544	1	US-08-469-658-52	Sequence 52, Appl	371	52.5	13.6	840	2	US-09-489-039A-10644	Sequence 10644, A
299	52.5	13.6	51	2	US-08-914-375C-44	Sequence 44, Appl	372	52	13.5	79	2	US-09-127-946-10	Sequence 10, Appl
300	52.5	13.6	79	1	US-08-763-528A-1	Sequence 1, Appl	373	52	13.5	129	2	US-10-191-732-10	Sequence 39585, A
301	52.5	13.6	80	1	US-08-763-528A-6	Sequence 6, Appl	374	52	13.5	129	2	US-09-270-767-33985	Sequence 33985, A
302	52.5	13.6	90	1	US-08-643-219-4	Sequence 4, Appl	375	52	13.5	129	2	US-09-370-767-54802	Sequence 54802, A
303	52.5	13.6	90	1	US-09-131-995-4	Sequence 4, Appl	376	52	13.5	223	2	US-10-094-749-2282	Sequence 2282, Ap
304	52.5	13.6	90	1	US-08-832-087B-4	Sequence 4, Appl	377	52	13.5	223	2	US-09-252-991A-18951	Sequence 18951, A
305	52.5	13.6	90	2	US-09-132-154-4	Sequence 4, Appl	378	52	13.5	428	1	US-08-190-802A-29	Sequence 29, Appl
306	52.5	13.6	93	1	US-08-643-219-7	Sequence 7, Appl	379	52	13.5	428	2	US-08-477-346-29	Sequence 29, Appl
307	52.5	13.6	93	1	US-09-131-995-5	Sequence 7, Appl	380	52	13.5	428	2	US-08-473-089-29	Sequence 29, Appl
308	52.5	13.6	93	1	US-08-832-087B-7	Sequence 7, Appl	381	52	13.5	428	2	US-08-487-072A-29	Sequence 29, Appl
309	52.5	13.6	93	2	US-09-132-154-7	Sequence 7, Appl	382	52	13.5	428	2	US-09-198-452A-189	Sequence 189, App
310	52.5	13.6	95	1	US-08-643-219-3	Sequence 3, Appl	383	52	13.5	428	2	US-09-438-185A-173	Sequence 173, App
311	52.5	13.6	95	1	US-09-131-995-3	Sequence 3, Appl	384	52	13.5	428	2	US-09-198-452A-575	Sequence 575, App
312	52.5	13.6	95	2	US-08-832-087B-3	Sequence 3, Appl	385	52	13.5	444	2	US-09-438-185A-538	Sequence 538, App
313	52.5	13.6	95	2	US-09-132-154-3	Sequence 3, Appl	386	52	13.5	667	2	US-09-252-991A-28436	Sequence 28436, A
314	52.5	13.6	98	1	US-08-643-219-6	Sequence 6, Appl	387	52	13.5	681	2	US-09-252-991A-21553	Sequence 21553, A
315	52.5	13.6	98	1	US-09-131-995-6	Sequence 6, Appl	388	52	13.5	862	2	US-09-543-681A-6315	Sequence 6315, Ap
316	52.5	13.6	98	1	US-08-832-087B-6	Sequence 6, Appl	389	52	13.5	1207	2	US-09-398-522-52	Sequence 52, Appl
317	52.5	13.6	98	2	US-09-132-154-6	Sequence 6, Appl	390	52	13.5	2220	2	US-09-949-016-9730	Sequence 9730, Ap
318	52.5	13.6	101	1	US-08-643-219-2	Sequence 2, Appl	391	52	13.5	2273	2	US-09-426-998-5	Sequence 5, Appl

392	52	13.5	3672	1	US-08-822-445-12	Sequence 12, Appl	465	50.5	13.1	235	2	US-09-160-841-6	Sequence 6, Appl1
393	52	13.5	3672	2	US-09-396-540-12	Sequence 12, Appl	466	50.5	13.1	235	2	US-09-109-100-1	Sequence 1, Appl1
394	52	13.5	3801	1	US-08-822-445-10	Sequence 10, Appl	467	50.5	13.1	235	2	US-08-669-692-6	Sequence 6, Appl1
395	52	13.5	3801	2	US-09-396-540-10	Sequence 10, Appl	468	50.5	13.1	235	2	US-08-444-626-6	Sequence 6, Appl1
396	51.5	13.3	85	2	US-09-270-767-35992	Sequence 35992, A	469	50.5	13.1	235	2	US-08-994-468-6	Sequence 6, Appl1
397	51.5	13.3	85	2	US-09-270-767-51209	Sequence 51209, A	470	50.5	13.1	235	5	PCT-US94-05365-6	Sequence 6, Appl1
398	51.5	13.3	88	2	US-09-248-796A-27021	Sequence 27021, A	471	50.5	13.1	247	2	US-09-776-976-2	Sequence 2, Appl1
399	51.5	13.3	116	2	US-09-482-272-115	Sequence 115, App	472	50.5	13.1	247	2	US-09-909-547-2	Sequence 2, Appl1
400	51.5	13.3	117	2	US-09-270-767-59357	Sequence 59357, A	473	50.5	13.1	247	2	US-09-949-016-11350	Sequence 11350, A
401	51.5	13.3	138	2	US-09-270-767-49952	Sequence 49952, A	474	50.5	13.1	247	2	US-10-814-814-2	Sequence 2, Appl1
402	51.5	13.3	254	1	US-08-667-939A-2	Sequence 4, Appl1	475	50.5	13.1	247	2	US-10-285-833-2	Sequence 2, Appl1
403	51.5	13.3	254	2	US-08-433-123-2	Sequence 2, Appl1	476	50.5	13.1	284	2	US-10-104-047-3648	Sequence 3648, Ap
404	51.5	13.3	274	1	US-08-222-851-1	Sequence 1, Appl1	477	50.5	13.1	338	2	US-09-489-039A-12787	Sequence 12787, A
405	51.5	13.3	331	2	US-09-489-847-309	Sequence 309, App	478	50.5	13.1	338	2	US-09-949-016-6176	Sequence 6176, Ap
406	51.5	13.3	339	2	US-09-949-016-7998	Sequence 7998, Ap	479	50.5	13.1	339	2	US-09-949-016-8636	Sequence 8636, Ap
407	51.5	13.3	364	2	US-08-914-372C-12	Sequence 12, Appl	480	50.5	13.1	361	2	US-08-914-372C-8	Sequence 8, Appl1
408	51.5	13.3	382	2	US-09-328-352-4335	Sequence 4335, Ap	481	50.5	13.1	365	2	US-09-270-767-42927	Sequence 42927, A
409	51.5	13.3	419	2	US-09-543-681A-6107	Sequence 6107, Ap	482	50.5	13.1	415	2	US-09-198-452A-208	Sequence 208, App
410	51.5	13.3	428	2	US-09-252-991A-30846	Sequence 30846, A	483	50.5	13.1	465	2	US-09-270-767-46551	Sequence 46551, A
411	51.5	13.3	648	2	US-09-489-039A-12514	Sequence 12514, A	484	50.5	13.1	509	2	US-09-107-532A-5470	Sequence 5470, Ap
412	51.5	13.3	952	2	US-09-949-016-5894	Sequence 5894, Ap	485	50.5	13.1	582	2	US-08-704-711A-2	Sequence 2, Appl1
413	51.5	13.3	960	2	US-09-949-016-9527	Sequence 9527, Ap	486	50.5	13.1	582	2	US-08-448-489-1	Sequence 1, Appl1
414	51.5	13.3	1912	2	US-09-495-714C-2	Sequence 2, Appl1	487	50.5	13.1	582	2	US-09-211-704A-9	Sequence 9, Appl1
415	51.5	13.3	1936	2	US-10-152-886-1	Sequence 1, Appl1	488	50.5	13.1	582	2	US-09-521-220-2	Sequence 2, Appl1
416	51.5	13.3	1977	2	US-09-495-714C-4	Sequence 4, Appl1	489	50.5	13.1	582	2	US-09-391-104-28	Sequence 28, Appl
417	51	13.2	25	2	US-09-988-842-24	Sequence 24, Appl	490	50.5	13.1	582	2	US-09-919-497-84	Sequence 84, Appl
418	51	13.2	60	2	US-09-489-039A-7385	Sequence 7385, Ap	491	50.5	13.1	582	2	US-09-689-730-1	Sequence 1, Appl1
419	51	13.2	70	2	US-09-894-882-359	Sequence 359, App	492	50.5	13.1	583	2	US-09-286-132-17	Sequence 17, Appl
420	51	13.2	116	2	US-09-902-540-13690	Sequence 13690, A	493	50.5	13.1	583	2	US-09-836-941-17	Sequence 11, Appl
421	51	13.2	156	2	US-09-252-991A-32426	Sequence 32426, A	494	50.5	13.1	1145	2	US-09-438-185A-191	Sequence 191, App
422	51	13.2	172	2	US-09-248-796A-22984	Sequence 22984, A	495	50.5	13.1	1237	1	US-08-241-853-2	Sequence 2, Appl1
423	51	13.2	174	2	US-09-383-586-12	Sequence 12, Appl	496	50.5	13.1	1237	1	US-08-850-917-2	Sequence 2, Appl1
424	51	13.2	174	2	US-09-823-038A-12	Sequence 12, Appl	497	50	13.0	21	1	US-07-715-397A-2	Sequence 2, Appl1
425	51	13.2	242	2	US-09-252-991A-28361	Sequence 28361, A	498	50	13.0	21	1	US-08-060-833-2	Sequence 2, Appl1
426	51	13.2	253	2	US-09-252-991A-18509	Sequence 18509, A	499	50	13.0	21	1	US-08-419-824-2	Sequence 2, Appl1
427	51	13.2	277	5	PCT-US93-08528-62	Sequence 62, Appl	500	50	13.0	21	2	US-08-848-580-2	Sequence 2, Appl1
428	51	13.2	339	2	US-09-252-991A-19891	Sequence 19891, A	501	50	13.0	21	2	US-08-468-123-2	Sequence 2, Appl1
429	51	13.2	375	2	US-09-538-092-159	Sequence 159, App	502	50	13.0	21	5	PCT-US92-04537-8	Sequence 8, Appl1
430	51	13.2	397	2	US-09-459-133-2	Sequence 2, Appl1	503	50	13.0	129	2	US-09-489-039A-14329	Sequence 14329, A
431	51	13.2	412	2	US-09-902-540-9831	Sequence 9831, Ap	504	50	13.0	147	2	US-09-252-991A-23997	Sequence 23997, A
432	51	13.2	456	2	US-09-252-991A-22581	Sequence 22581, A	505	50	13.0	176	2	US-09-252-991A-28615	Sequence 28615, A
433	51	13.2	459	2	US-09-248-796A-17874	Sequence 17874, A	506	50	13.0	179	2	US-09-252-991A-18232	Sequence 18232, A
434	51	13.2	498	2	US-09-949-016-9712	Sequence 9712, Ap	507	50	13.0	267	2	US-09-543-681A-4252	Sequence 4252, Ap
435	51	13.2	507	2	US-09-252-991A-32755	Sequence 32755, A	508	50	13.0	294	2	US-09-902-540-14074	Sequence 14074, A
436	51	13.2	521	1	US-08-933-227-1	Sequence 1, Appl1	509	50	13.0	302	2	US-09-252-991A-25724	Sequence 25724, A
437	51	13.2	521	2	US-09-538-092-819	Sequence 819, App	510	50	13.0	311	2	US-09-720-917A-6	Sequence 6, Appl1
438	51	13.2	550	2	US-09-328-352-5727	Sequence 5727, Ap	511	50	13.0	322	7	5212074-1	Patent No. 5212074
439	51	13.2	559	2	US-09-854-133-336	Sequence 336, App	512	50	13.0	382	2	US-09-949-016-10839	Sequence 10839, A
440	51	13.2	753	2	US-09-949-016-7806	Sequence 7806, Ap	513	50	13.0	424	2	US-10-029-180-104	Sequence 104, App
441	51	13.2	793	2	US-09-056-383-13	Sequence 13, Appl	514	50	13.0	435	2	US-09-252-991A-21447	Sequence 21447, A
442	51	13.2	889	2	US-10-104-047-3449	Sequence 3449, Ap	515	50	13.0	441	2	US-09-252-991A-27502	Sequence 27502, A
443	51	13.2	1753	2	US-09-248-796A-19154	Sequence 19154, A	516	50	13.0	444	2	US-09-520-210-11	Sequence 11, Appl
444	51	13.2	3559	2	US-09-693-205A-10	Sequence 10, Appl	517	50	13.0	466	1	US-07-882-202A-4	Sequence 4, Appl1
445	50.5	13.1	145	1	US-08-958-315-8	Sequence 8, Appl1	518	50	13.0	466	1	US-08-021-615A-4	Sequence 4, Appl1
446	50.5	13.1	145	1	US-08-406-057-8	Sequence 8, Appl1	519	50	13.0	466	1	US-08-321-717-4	Sequence 4, Appl1
447	50.5	13.1	163	2	US-09-252-991A-26193	Sequence 26193, A	520	50	13.0	466	2	US-09-009-217-14	Sequence 14, Appl
448	50.5	13.1	173	2	US-10-104-047-3025	Sequence 3025, Ap	521	50	13.0	466	5	US-09-009-656-14	Sequence 14, Appl
449	50.5	13.1	209	2	US-09-109-100-8	Sequence 8, Appl1	522	50	13.0	466	5	PCT-US93-04493-4	Sequence 4, Appl1
450	50.5	13.1	209	2	US-09-109-100-9	Sequence 9, Appl1	523	50	13.0	479	1	US-08-942-218A-2	Sequence 2, Appl1
451	50.5	13.1	209	2	US-09-109-100-10	Sequence 10, Appl	524	50	13.0	483	1	US-09-949-016-9523	Sequence 9523, Ap
452	50.5	13.1	209	2	US-09-109-100-11	Sequence 11, Appl	525	50	13.0	499	1	US-08-610-731A-2	Sequence 2, Appl1
453	50.5	13.1	209	2	US-09-109-100-12	Sequence 12, Appl	526	50	13.0	499	1	US-09-067-379-2	Sequence 2, Appl1
454	50.5	13.1	209	2	US-09-109-100-13	Sequence 13, Appl	527	50	13.0	499	2	US-09-067-506-2	Sequence 2, Appl1
455	50.5	13.1	209	2	US-09-109-100-14	Sequence 14, Appl	528	50	13.0	499	2	US-08-951-0348-2	Sequence 2, Appl1
456	50.5	13.1	209	2	US-09-109-100-15	Sequence 15, Appl	529	50	13.0	533	2	US-09-060-289-8	Sequence 8, Appl1
457	50.5	13.1	209	2	US-09-109-100-16	Sequence 16, Appl	530	50	13.0	533	2	US-09-402-923A-8	Sequence 8, Appl1
458	50.5	13.1	209	2	US-09-109-100-17	Sequence 17, Appl	531	50	13.0	545	2	US-08-667-590-26	Sequence 26, Appl
459	50.5	13.1	209	2	US-09-109-100-18	Sequence 18, Appl	532	50	13.0	648	2	US-09-252-991A-23682	Sequence 23682, A
460	50.5	13.1	212	2	US-09-109-100-10	Sequence 10, Appl	533	50	13.0	689	2	US-09-232-200-73	Sequence 73, Appl
461	50.5	13.1	231	2	US-09-830-433A-32	Sequence 32, Appl	534	50	13.0	689	2	US-09-232-197-73	Sequence 73, Appl
462	50.5	13.1	234	2	US-09-270-767-62145	Sequence 62145, A	535	50	13.0	689	2	US-09-232-201-73	Sequence 73, Appl
463	50.5	13.1	235	1	US-08-243-545-6	Sequence 6, Appl1	536	50	13.0	689	2	US-09-232-195-73	Sequence 73, Appl
464	50.5	13.1	235	1	US-08-993-962-6	Sequence 6, Appl1	537	50	13.0	689	3	US-09-405-504A-73	Sequence 73, Appl

538	50	13.0	731	1	US-08-313-185-51	Sequence 51, App1	611	49.5	12.8	578	2	US-09-949-002-322	Sequence 322, App
539	50	13.0	731	1	US-08-459-499-15	Sequence 51, App1	612	49.5	12.8	578	5	PCT-US93-11638-2	Sequence 2, App1
540	50	13.0	731	2	US-09-082-614A-51	Sequence 51, App1	613	49.5	12.8	728	2	US-09-508-824-10	Sequence 10, App1
541	50	13.0	957	2	US-09-252-991A-30672	Sequence 30672, A	614	49.5	12.8	802	2	US-09-252-991A-25050	Sequence 25050, A
542	50	13.0	973	1	US-08-162-809-10	Sequence 10, App1	615	49.5	12.8	1009	2	US-09-252-991A-24492	Sequence 24492, A
543	50	13.0	988	1	US-08-162-809-14	Sequence 14, App1	616	49.5	12.8	1805	2	US-09-949-016-8246	Sequence 8246, App
544	50	13.0	1586	2	US-09-060-299-44	Sequence 44, App1	617	49	12.7	49	2	US-09-270-767-40250	Sequence 40250, A
545	50	13.0	1586	2	US-09-402-923A-44	Sequence 44, App1	618	49	12.7	49	2	US-09-270-767-55466	Sequence 55466, A
546	50	13.0	1614	2	US-09-060-299-42	Sequence 42, App1	619	49	12.7	99	2	US-09-543-681A-7422	Sequence 7422, App
547	50	13.0	1614	2	US-09-402-923A-42	Sequence 42, App1	620	49	12.7	133	2	US-09-252-991A-21189	Sequence 21189, A
548	50	13.0	1733	3	US-09-958-359-21	Sequence 21, App1	621	49	12.7	134	2	US-10-104-047-3376	Sequence 3376, App
549	50	13.0	1838	2	US-09-120-663-2	Sequence 2, App1	622	49	12.7	136	2	US-09-489-039A-10118	Sequence 10118, A
550	50	13.0	1838	2	US-09-431-614-8	Sequence 8, App1	623	49	12.7	137	2	US-09-252-991A-16905	Sequence 16905, A
551	50	13.0	1838	2	US-09-596-784-2	Sequence 2, App1	624	49	12.7	141	1	US-08-637-173-21	Sequence 21, App1
552	50	13.0	1838	2	US-09-412-100-28	Sequence 28, App1	625	49	12.7	141	1	US-08-535-882A-21	Sequence 21, App1
553	49.5	12.8	118	2	US-09-893-737-70	Sequence 70, App1	626	49	12.7	141	2	US-08-316-424A-7	Sequence 7, App1
554	49.5	12.8	134	2	US-09-252-991A-24067	Sequence 24067, A	627	49	12.7	141	2	US-09-005-546-21	Sequence 21, App1
555	49.5	12.8	135	2	US-09-252-991A-29609	Sequence 29609, A	628	49	12.7	141	2	US-08-477-669-7	Sequence 7, App1
556	49.5	12.8	137	2	US-09-902-540-13953	Sequence 13953, A	629	49	12.7	141	2	US-10-128-581-26	Sequence 26, App1
557	49.5	12.8	151	2	US-10-104-047-1362	Sequence 1362, App	630	49	12.7	141	2	US-08-832-443C-21	Sequence 21, App1
558	49.5	12.8	230	2	US-09-893-737-210	Sequence 210, App	631	49	12.7	141	2	US-10-463-699-28	Sequence 28, App1
559	49.5	12.8	234	2	US-10-027-736A-69	Sequence 69, App1	632	49	12.7	182	2	US-09-270-767-12884	Sequence 12884, App
560	49.5	12.8	236	2	US-08-705-771-19	Sequence 19, App1	633	49	12.7	206	1	US-08-197-793-2	Sequence 2, App1
561	49.5	12.8	236	2	US-09-417-540-19	Sequence 19, App1	634	49	12.7	206	1	US-08-636-176-2	Sequence 2, App1
562	49.5	12.8	246	2	US-09-949-016-9610	Sequence 9610, App	635	49	12.7	206	5	PCT-US95-01618-2	Sequence 2, App1
563	49.5	12.8	254	2	US-10-027-736A-20	Sequence 20, App1	636	49	12.7	213	2	US-10-104-047-12884	Sequence 2884, App
564	49.5	12.8	272	1	US-08-698-551-8	Sequence 8, App1	637	49	12.7	230	2	US-09-252-991A-22765	Sequence 22765, A
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571	49.5	12.8	272	2	US-09-185-258C-8	Sequence 8, App1	644	49	12.7	346	2	US-09-248-796A-16202	Sequence 16202, A
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573	49.5	12.8	272	2	US-08-460-221-3	Sequence 3, App1	646	49	12.7	419	1	US-07-649-591B-5	Sequence 5, App1
574	49.5	12.8	272	2	US-08-458-658-3	Sequence 3, App1	647	49	12.7	419	1	US-08-277-540-5	Sequence 5, App1
575	49.5	12.8	272	2	US-08-345-864-8	Sequence 8, App1	648	49	12.7	419	1	US-08-430-787A-5	Sequence 5, App1
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578	49.5	12.8	272	5	PCT-US95-12724-8	Sequence 8, App1	651	49	12.7	442	2	US-09-252-991A-20457	Sequence 20457, A
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581	49.5	12.8	340	1	US-08-190-802A-38	Sequence 38, App1	654	49	12.7	453	2	US-09-107-532A-4539	Sequence 4539, App
582	49.5	12.8	340	1	US-08-190-802A-42	Sequence 42, App1	655	49	12.7	555	2	US-09-252-991A-23546	Sequence 23546, A
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586	49.5	12.8	340	2	US-08-473-089-42	Sequence 42, App1	659	49	12.7	784	2	US-09-371-913A-7	Sequence 7, App1
587	49.5	12.8	340	2	US-08-487-072A-38	Sequence 38, App1	660	49	12.7	784	2	US-09-367-805-7	Sequence 7, App1
588	49.5	12.8	340	2	US-08-487-072A-42	Sequence 42, App1	661	49	12.7	784	2	US-10-631-407A-7	Sequence 7, App1
589	49.5	12.8	340	2	US-09-245-039-1	Sequence 1, App1	662	49	12.7	784	2	US-09-328-352-8055	Sequence 8055, App
590	49.5	12.8	340	2	US-09-538-092-848	Sequence 848, App	663	49	12.7	855	2	US-09-489-039A-12681	Sequence 12681, A
591	49.5	12.8	340	2	US-09-538-092-899	Sequence 899, App	664	49	12.7	1374	2	US-09-771-161A-1267	Sequence 267, App
592	49.5	12.8	343	2	US-09-949-016-7827	Sequence 7827, App	665	49	12.7	1375	2	US-09-171-410-1	Sequence 1, App1
593	49.5	12.8	364	2	US-08-914-372C-11	Sequence 11, App1	666	49	12.7	1711	1	US-08-342-930-2	Sequence 2, App1
594	49.5	12.8	390	2	US-09-949-016-7236	Sequence 7236, App	667	49	12.7	1919	2	US-10-152-886-13	Sequence 13, App1
595	49.5	12.8	396	2	US-09-270-767-41493	Sequence 41493, A	668	49	12.7	1919	2	US-10-104-047-2901	Sequence 2901, App
596	49.5	12.8	400	2	US-09-491-577-26	Sequence 26, App1	669	49	12.6	114	2	US-09-800-729-90	Sequence 90, App1
597	49.5	12.8	433	2	US-09-489-039A-10693	Sequence 10693, A	670	49	12.6	142	2	US-09-949-016-6829	Sequence 6829, App
598	49.5	12.8	452	2	US-09-489-039A-12558	Sequence 12558, A	671	49	12.6	149	2	US-09-732-210-842	Sequence 842, App
599	49.5	12.8	457	2	US-09-252-991A-30850	Sequence 30850, A	672	49	12.6	149	2	US-09-732-210-855	Sequence 855, App
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602	49.5	12.8	516	2	US-09-949-002-526	Sequence 526, App	675	49	12.6	162	2	US-09-311-021-134	Sequence 134, App
603	49.5	12.8	523	2	US-09-930-218-4	Sequence 4, App1	676	49	12.6	163	2	US-09-252-991A-20974	Sequence 20974, A
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605	49.5	12.8	578	1	US-08-424-788-5	Sequence 5, App1	678	49	12.6	177	2	US-09-893-737-174	Sequence 174, App
606	49.5	12.8	578	1	US-08-110-683-2	Sequence 2, App1	679	49	12.6	198	2	US-09-252-991A-13793	Sequence 13793, A
607	49.5	12.8	578	1	US-08-683-743-2	Sequence 2, App1	680	49	12.6	200	2	US-09-252-991A-13793	Sequence 13793, A
608	49.5	12.8	578	1	US-08-477-166-2	Sequence 2, App1	681	49	12.6	236	2	US-09-502-540-9968	Sequence 9968, App
609	49.5	12.8	578	1	US-08-472-097-2	Sequence 2, App1	682	49	12.6	251	2	US-09-902-540-15593	Sequence 15593, A
610	49.5	12.8	578	2	US-09-439-672-2	Sequence 2, App1	683	49	12.6	281	2	US-09-543-681A-5128	Sequence 5128, App

684	48.5	12.6	307	1	US-08-484-905-68	Sequence 68, Appl	757	48	12.4	155	2	US-09-270-767-77060	Sequence 37060, A
685	48.5	12.6	307	2	US-08-481-985B-68	Sequence 68, Appl	758	48	12.4	155	2	US-09-270-767-77060	Sequence 52277, A
686	48.5	12.6	307	2	US-08-370-476-68	Sequence 68, Appl	759	48	12.4	161	2	US-10-039-766-2	Sequence 2, Appl1
687	48.5	12.6	310	2	US-09-907-794A-423	Sequence 423, App	760	48	12.4	161	2	US-10-771-224-2	Sequence 2, Appl1
688	48.5	12.6	310	2	US-09-905-125A-423	Sequence 423, App	761	48	12.4	194	2	US-09-252-991A-22009	Sequence 22009, A
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690	48.5	12.6	310	2	US-09-906-700-423	Sequence 423, App	763	48	12.4	213	2	US-09-585-645A-21	Sequence 22, Appl1
691	48.5	12.6	310	2	US-09-903-603A-423	Sequence 423, App	764	48	12.4	221	2	US-09-069-023-22	Sequence 22, Appl1
692	48.5	12.6	310	2	US-09-904-920A-423	Sequence 423, App	765	48	12.4	225	2	US-09-489-039A-11424	Sequence 11424, A
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694	48.5	12.6	310	2	US-09-905-381A-423	Sequence 423, App	767	48	12.4	227	2	US-09-543-681A-77659	Sequence 77659, Ap
695	48.5	12.6	310	2	US-09-906-618-423	Sequence 423, App	768	48	12.4	228	2	US-10-104-047-7829	Sequence 2829, Ap
696	48.5	12.6	310	2	US-09-906-646-423	Sequence 423, App	769	48	12.4	229	2	US-09-543-681A-5286	Sequence 5286, Ap
697	48.5	12.6	310	2	US-09-904-462-423	Sequence 423, App	770	48	12.4	230	2	US-09-248-796A-16201	Sequence 16201, A
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699	48.5	12.6	310	2	US-10-033-301-20	Sequence 20, Appl	772	48	12.4	234	2	US-09-282-357-9	Sequence 9, Appl1
700	48.5	12.6	310	2	US-09-906-722A-423	Sequence 423, App	773	48	12.4	234	3	US-08-867-587B-7	Sequence 7, Appl1
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703	48.5	12.6	310	2	US-10-033-435-20	Sequence 20, Appl	776	48	12.4	244	2	US-09-140-804-3	Sequence 3, Appl1
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705	48.5	12.6	310	3	US-09-907-841-423	Sequence 423, App	778	48	12.4	244	2	US-09-530-423-1	Sequence 1, Appl1
706	48.5	12.6	312	2	US-09-252-991A-28271	Sequence 28271, A	779	48	12.4	244	2	US-09-666-838B-3	Sequence 3, Appl1
707	48.5	12.6	318	2	US-09-543-681A-6590	Sequence 6590, Ap	780	48	12.4	244	2	US-09-911-176B-48	Sequence 48, Appl
708	48.5	12.6	343	2	US-09-063-743-5	Sequence 5, Appl1	781	48	12.4	244	2	US-09-552-225A-3	Sequence 3, Appl1
709	48.5	12.6	343	2	US-09-590-540-5	Sequence 5, Appl1	782	48	12.4	244	2	US-09-619-740-51	Sequence 51, Appl1
710	48.5	12.6	363	2	US-08-914-372C-37	Sequence 37, Appl1	783	48	12.4	244	2	US-09-776-976-6	Sequence 6, Appl1
711	48.5	12.6	398	2	US-09-902-540-13812	Sequence 13812, A	784	48	12.4	244	2	US-09-509-547-6	Sequence 6, Appl1
712	48.5	12.6	426	2	US-09-902-540-10233	Sequence 10233, A	785	48	12.4	244	2	US-09-359-852B-6	Sequence 6, Appl1
713	48.5	12.6	452	2	US-08-764-870-16	Sequence 16, Appl	786	48	12.4	244	2	US-09-552-204A-3	Sequence 3, Appl1
714	48.5	12.6	452	2	US-08-980-115-16	Sequence 16, Appl	787	48	12.4	244	2	US-10-621-787-3	Sequence 3, Appl1
715	48.5	12.6	464	2	US-09-050-739-62	Sequence 62, Appl	788	48	12.4	244	2	US-10-231-814-6	Sequence 6, Appl1
716	48.5	12.6	464	2	US-09-804-980-62	Sequence 62, Appl	789	48	12.4	257	2	US-10-285-833-6	Sequence 6, Appl1
717	48.5	12.6	494	2	US-09-248-796A-18116	Sequence 18116, A	790	48	12.4	257	2	US-09-949-016-3426	Sequence 9426, Ap
718	48.5	12.6	500	2	US-09-596-377A-29	Sequence 29, Appl	791	48	12.4	258	2	US-10-104-047-3284	Sequence 3284, Ap
719	48.5	12.6	500	2	US-09-596-377A-34	Sequence 34, Appl	792	48	12.4	280	2	US-09-252-991A-32145	Sequence 32145, A
720	48.5	12.6	501	2	US-09-596-377A-27	Sequence 27, Appl	793	48	12.4	282	2	US-09-252-991A-21046	Sequence 21046, A
721	48.5	12.6	501	2	US-09-596-377A-28	Sequence 28, Appl	794	48	12.4	299	2	US-09-370-398-2	Sequence 2, Appl1
722	48.5	12.6	508	2	US-09-252-991A-34250	Sequence 24250, A	795	48	12.4	299	2	US-10-090-190-2	Sequence 2, Appl1
723	48.5	12.6	522	1	US-08-164-614A-10	Sequence 10, Appl	796	48	12.4	299	2	US-10-082-902-2	Sequence 2, Appl1
724	48.5	12.6	522	1	US-08-456-489B-10	Sequence 10, Appl	797	48	12.4	300	2	US-09-370-398-5	Sequence 5, Appl1
725	48.5	12.6	522	2	US-09-949-016-6185	Sequence 6185, Ap	798	48	12.4	300	2	US-10-090-180-5	Sequence 5, Appl1
726	48.5	12.6	536	2	US-09-949-016-7663	Sequence 7663, Ap	799	48	12.4	300	2	US-10-082-902-5	Sequence 5, Appl1
727	48.5	12.6	536	1	US-08-164-614A-12	Sequence 12, Appl	800	48	12.4	313	1	US-08-463-081B-26	Sequence 26, Appl1
728	48.5	12.6	536	1	US-08-456-489B-12	Sequence 12, Appl	801	48	12.4	313	1	US-08-463-390B-26	Sequence 26, Appl
729	48.5	12.6	536	1	US-09-949-016-8560	Sequence 8560, Ap	802	48	12.4	313	1	US-08-463-390B-26	Sequence 26, Appl
730	48.5	12.6	560	1	US-07-683-957B-1	Sequence 1, Appl1	803	48	12.4	313	2	US-08-463-074B-26	Sequence 26, Appl
731	48.5	12.6	562	2	US-09-211-704A-4	Sequence 4, Appl1	804	48	12.4	313	2	US-08-465-585C-26	Sequence 26, Appl
732	48.5	12.6	562	3	US-10-133-797A-7	Sequence 7, Appl1	805	48	12.4	313	2	US-08-652-446-6	Sequence 8, Appl1
733	48.5	12.6	570	2	US-09-949-016-8263	Sequence 8263, Ap	806	48	12.4	313	2	US-09-237-543-8	Sequence 8, Appl1
734	48.5	12.6	570	2	US-09-949-016-8264	Sequence 8264, Ap	807	48	12.4	313	2	US-09-237-543-9	Sequence 9, Appl1
735	48.5	12.6	668	2	US-10-094-748-2915	Sequence 2915, Ap	808	48	12.4	313	2	US-09-644-450-8	Sequence 8, Appl1
736	48.5	12.6	796	2	US-09-252-991A-17490	Sequence 17490, A	809	48	12.4	313	3	US-09-644-450-9	Sequence 9, Appl1
737	48.5	12.6	864	2	US-09-604-978-11	Sequence 11, Appl	810	48	12.4	318	3	US-10-329-258-2	Sequence 2, Appl1
738	48.5	12.6	864	2	US-09-604-728-11	Sequence 11, Appl	811	48	12.4	330	2	US-10-104-047-2839	Sequence 2839, Ap
739	48.5	12.6	864	2	US-10-325-878-11	Sequence 11, Appl	812	48	12.4	337	2	US-09-477-962-125	Sequence 125, App
740	48.5	12.6	918	2	US-09-041-886-11	Sequence 11, Appl	813	48	12.4	346	2	US-09-468-430C-22	Sequence 22, Appl
741	48.5	12.6	919	2	US-09-538-092-8895	Sequence 895, App	814	48	12.4	348	2	US-09-902-540-12510	Sequence 12510, A
742	48.5	12.6	923	2	US-09-497-822C-19	Sequence 19, App	815	48	12.4	389	2	US-09-788-667-23	Sequence 23, Appl
743	48.5	12.6	996	2	US-09-497-822C-21	Sequence 21, Appl	816	48	12.4	389	2	US-10-641-068-23	Sequence 23, Appl
744	48.5	12.6	1021	2	US-09-252-991A-19205	Sequence 19205, A	817	48	12.4	407	2	US-10-641-068-23	Sequence 18700, A
745	48.5	12.6	1058	3	US-09-826-312A-2	Sequence 2, Appl1	818	48	12.4	446	2	US-09-489-039A-8785	Sequence 8785, Ap
746	48.5	12.6	1058	3	US-10-835-096-2	Sequence 2, Appl1	819	48	12.4	465	2	US-08-856-841-19	Sequence 19, Appl
747	48.5	12.6	1059	2	US-09-542-497A-2	Sequence 2, Appl1	820	48	12.4	486	2	US-09-904-615-71	Sequence 71, Appl
748	48.5	12.6	1059	2	US-10-108-767-2	Sequence 2, Appl1	821	48	12.4	486	2	US-10-054-988-71	Sequence 71, Appl
749	48.5	12.6	1059	2	US-10-152-156-2	Sequence 2, Appl1	822	48	12.4	544	2	US-09-538-032-1151	Sequence 1151, Ap
750	48.5	12.6	1095	3	US-09-543-681A-6594	Sequence 6594, Ap	823	48	12.4	571	2	US-09-999-833A-132	Sequence 132, App
751	48.5	12.6	1119	3	US-09-907-155B-12	Sequence 12, Appl	824	48	12.4	571	2	US-10-020-445A-132	Sequence 132, App
752	48.5	12.6	5037	2	US-09-424-783-4	Sequence 4, Appl1	825	48	12.4	571	2	US-09-978-189-132	Sequence 132, App
753	48	12.4	37	2	US-09-471-276-879	Sequence 879, App	826	48	12.4	571	3	US-10-017-085A-132	Sequence 132, App
754	48	12.4	108	2	US-09-893-737-238	Sequence 238, App	827	48	12.4	571	3	US-10-145-129A-132	Sequence 132, App
755	48	12.4	111	2	US-09-252-991A-17288	Sequence 17288, A	828	48	12.4	571	3	US-10-013-929A-132	Sequence 132, App
756	48	12.4	117	2	US-08-965-903B-16	Sequence 16, Appl	829	48	12.4	571	3	US-10-013-929A-132	Sequence 132, App

830	48	12.4	586	2	US-09-438-185A-365	Sequence 365, App	903	47.5	12.3	195	2	US-09-543-681A-6199	Sequence 6199, Ap
831	48	12.4	622	2	US-09-270-767-44449	Sequence 44449, A	904	47.5	12.3	213	2	US-09-252-991A-24258	Sequence 24258, A
832	48	12.4	666	2	US-09-432-869-18	Sequence 18, Appl	905	47.5	12.3	215	2	US-10-311-689-48	Sequence 48, Appl
833	48	12.4	686	2	US-09-245-041-13	Sequence 13, Appl	906	47.5	12.3	217	2	US-09-902-540-15768	Sequence 15768, A
834	48	12.4	686	2	US-09-358-055B-13	Sequence 13, Appl	907	47.5	12.3	232	2	US-09-452-991A-30351	Sequence 30351, A
835	48	12.4	686	2	US-09-893-238-13	Sequence 13, Appl	908	47.5	12.3	234	2	US-09-489-039A-13353	Sequence 13353, A
836	48	12.4	719	2	US-09-588-256-2	Sequence 2, Appl1	909	47.5	12.3	236	2	US-09-634-137-4	Sequence 4, Appl1
837	48	12.4	722	2	US-09-949-016-6909	Sequence 6909, Ap	910	47.5	12.3	241	2	US-09-252-991A-19677	Sequence 19677, A
838	48	12.4	725	2	US-09-949-016-10832	Sequence 10832, A	911	47.5	12.3	254	1	US-08-236-918A-4	Sequence 4, Appl1
839	48	12.4	841	2	US-09-518-550-54	Sequence 44, Appl	912	47.5	12.3	254	1	US-08-667-939A-3	Sequence 3, Appl1
840	48	12.4	849	2	US-09-548-797B-6	Sequence 6, Appl1	913	47.5	12.3	254	2	US-09-150-864A-4	Sequence 4, Appl1
841	48	12.4	946	2	US-09-252-991A-18989	Sequence 18989, A	914	47.5	12.3	254	2	US-08-433-123-3	Sequence 3, Appl1
842	48	12.4	969	2	US-09-533-029-106	Sequence 106, App	915	47.5	12.3	271	2	US-09-578-303-6	Sequence 6, Appl1
843	48	12.4	998	1	US-08-673-789-7	Sequence 7, Appl1	916	47.5	12.3	285	2	US-09-489-039A-7446	Sequence 7446, Ap
844	48	12.4	998	1	US-08-449-645A-20	Sequence 20, Appl	917	47.5	12.3	286	2	US-09-252-991A-27047	Sequence 27047, A
845	48	12.4	998	1	US-08-702-367A-20	Sequence 20, Appl	918	47.5	12.3	308	2	US-09-248-796A-19474	Sequence 19474, A
846	48	12.4	998	1	US-09-378-759-20	Sequence 20, Appl	919	47.5	12.3	308	2	US-09-448-796A-20134	Sequence 20134, A
847	48	12.4	998	5	PCT-US95-04681-20	Sequence 20, Appl	920	47.5	12.3	337	2	US-09-311-021-210	Sequence 210, App
848	48	12.4	1011	2	US-09-964-956-127	Sequence 127, App	921	47.5	12.3	370	2	US-09-303-518B-110	Sequence 110, App
849	48	12.4	1066	2	US-09-270-767-42167	Sequence 42167, A	922	47.5	12.3	372	1	US-08-411-859-2	Sequence 2, Appl1
850	48	12.4	1193	2	US-09-949-016-10458	Sequence 10498, A	923	47.5	12.3	372	2	US-08-387-707-8	Sequence 8, Appl1
851	48	12.4	1193	2	US-09-245-041-131	Sequence 131, App	924	47.5	12.3	372	2	US-08-405-271A-8	Sequence 30, Appl
852	48	12.4	1198	2	US-09-794-236-3	Sequence 3, Appl1	925	47.5	12.3	388	2	US-09-491-577-30	Sequence 5, Appl1
853	48	12.4	1198	2	US-09-358-055B-132	Sequence 132, App	926	47.5	12.3	400	2	US-10-332-795-5	Sequence 28822, A
854	48	12.4	1198	2	US-09-964-956-35	Sequence 35, Appl	927	47.5	12.3	446	2	US-09-252-991A-28822	Sequence 4, Appl1
855	48	12.4	1198	2	US-09-787-097-2	Sequence 2, Appl1	928	47.5	12.3	484	2	US-09-263-023-4	Sequence 4, Appl1
856	48	12.4	1272	2	US-09-787-097-18	Sequence 18, Appl	929	47.5	12.3	484	2	US-09-471-867-4	Sequence 10461, A
857	48	12.4	1350	2	US-09-245-041-17	Sequence 17, Appl	930	47.5	12.3	488	2	US-09-949-016-10461	Sequence 10461, A
858	48	12.4	1350	2	US-09-358-055B-17	Sequence 17, Appl	931	47.5	12.3	488	2	US-09-949-016-10462	Sequence 10462, A
859	48	12.4	1350	2	US-09-893-238-17	Sequence 17, Appl	932	47.5	12.3	490	2	US-09-591-095-22	Sequence 22, Appl
860	48	12.4	1355	2	US-09-787-097-30	Sequence 30, App	933	47.5	12.3	495	2	US-09-949-016-9023	Sequence 9023, Ap
861	48	12.4	1429	2	US-09-245-041-130	Sequence 130, App	934	47.5	12.3	514	2	US-10-104-047-2735	Sequence 2735, Ap
862	48	12.4	1429	2	US-09-358-055B-131	Sequence 131, App	935	47.5	12.3	515	2	US-09-032-742-5	Sequence 5, Appl1
863	48	12.4	1429	2	US-09-787-097-12	Sequence 12, Appl	936	47.5	12.3	517	2	US-10-104-047-2679	Sequence 2679, Ap
864	48	12.4	1466	2	US-09-824-574-2	Sequence 2, Appl	937	47.5	12.3	521	2	US-10-155-535-6	Sequence 6, Appl1
865	48	12.4	1958	2	US-10-152-886-93	Sequence 93, Appl	938	47.5	12.3	529	2	US-09-252-991A-18817	Sequence 16817, A
866	48	12.4	2787	2	US-09-245-041-15	Sequence 15, Appl	939	47.5	12.3	531	2	US-09-949-016-6471	Sequence 6471, A
867	48	12.4	2787	2	US-09-358-055B-15	Sequence 15, Appl	940	47.5	12.3	533	2	US-09-002-540-11053	Sequence 11053, A
868	48	12.4	2787	2	US-09-893-238-15	Sequence 15, Appl	941	47.5	12.3	551	2	US-08-896-537A-2	Sequence 2, Appl1
869	48	12.4	3025	7	5223423-3	Patent No. 5223423	942	47.5	12.3	563	2	US-09-540-236-2898	Sequence 2898, Ap
870	48	12.4	3567	1	US-07-642-734C-4	Sequence 4, Appl1	943	47.5	12.3	574	7	5378464-3	Patent No. 5378464
871	48	12.4	3567	1	US-08-439-009A-2	Sequence 4, Appl1	944	47.5	12.3	577	2	US-09-902-540-15452	Sequence 15452, A
872	48	12.4	3571	2	US-09-911-842A-2	Sequence 2, Appl1	945	47.5	12.3	577	2	US-10-104-047-3148	Sequence 3148, Ap
873	48	12.4	4302	2	US-08-658-136-5	Sequence 5, Appl1	946	47.5	12.3	581	2	US-10-099-322-22	Sequence 22, Appl
874	48	12.4	4302	2	US-09-052-469-8	Sequence 8, Appl1	947	47.5	12.3	581	2	US-10-099-322-91	Sequence 91, Appl
875	48	12.4	4302	2	US-08-422-582-8	Sequence 8, Appl1	948	47.5	12.3	581	2	US-10-044-564-22	Sequence 22, Appl
876	48	12.4	4302	2	US-09-052-262-8	Sequence 8, Appl1	949	47.5	12.3	581	2	US-10-044-564-91	Sequence 91, Appl
877	48	12.4	4303	1	US-08-460-751-2	Sequence 2, Appl1	950	47.5	12.3	585	2	US-09-328-352-6133	Sequence 6133, Ap
878	48	12.4	4303	2	US-09-479-467A-2	Sequence 2, Appl1	951	47.5	12.3	600	2	US-09-543-681A-4196	Sequence 4196, Ap
879	48	12.4	4303	2	US-09-655-160-2	Sequence 2, Appl1	952	47.5	12.3	619	1	US-08-472-934-4	Sequence 4, Appl1
880	48	12.4	4339	2	US-09-052-469-6	Sequence 6, Appl1	953	47.5	12.3	619	1	US-08-472-934-12	Sequence 12, Appl
881	48	12.4	4339	2	US-08-422-582-6	Sequence 6, Appl1	954	47.5	12.3	619	1	US-08-323-460A-4	Sequence 4, Appl1
882	48	12.4	4339	2	US-09-052-262-6	Sequence 6, Appl1	955	47.5	12.3	619	1	US-08-461-146C-4	Sequence 4, Appl1
883	48	12.4	4339	2	US-10-178-213-299	Sequence 299, App	956	47.5	12.3	619	1	US-08-461-146C-12	Sequence 12, Appl
884	47.5	12.3	64	2	US-09-270-767-38506	Sequence 38506, A	957	47.5	12.3	619	2	US-08-461-145C-4	Sequence 4, Appl1
885	47.5	12.3	78	2	US-09-270-767-53723	Sequence 53723, A	958	47.5	12.3	619	2	US-08-461-145C-12	Sequence 12, Appl
886	47.5	12.3	92	2	US-09-252-991A-16692	Sequence 16692, A	959	47.5	12.3	619	2	US-09-423-890-10	Sequence 10, Appl
887	47.5	12.3	100	1	US-08-643-219-9	Sequence 9, Appl1	960	47.5	12.3	619	2	US-08-628-829-6	Sequence 6, Appl1
888	47.5	12.3	100	1	US-09-131-995-9	Sequence 9, Appl1	961	47.5	12.3	619	2	US-08-628-829-8	Sequence 8, Appl1
889	47.5	12.3	100	1	US-08-832-087B-9	Sequence 9, Appl1	962	47.5	12.3	619	2	US-10-000-864-10	Sequence 10, Appl
890	47.5	12.3	100	1	US-09-132-154-9	Sequence 9, Appl1	963	47.5	12.3	638	2	US-09-252-991A-17957	Sequence 17957, A
891	47.5	12.3	102	2	US-09-513-999C-6419	Sequence 6419, Ap	964	47.5	12.3	655	1	US-08-148-910-12	Sequence 12, Appl
892	47.5	12.3	112	2	US-08-648-322-2	Sequence 2, Appl1	965	47.5	12.3	655	1	US-08-148-910-12	Sequence 12, Appl
893	47.5	12.3	112	2	US-09-001-472-3	Sequence 3, Appl1	966	47.5	12.3	670	2	US-09-575-081B-27	Sequence 27, Appl
894	47.5	12.3	112	2	US-08-857-389-2	Sequence 2, Appl1	967	47.5	12.3	670	2	US-09-949-016-6584	Sequence 6584, Ap
895	47.5	12.3	112	2	US-09-775-827A-3	Sequence 3, Appl1	968	47.5	12.3	670	2	US-09-949-016-6990	Sequence 6990, Ap
896	47.5	12.3	112	2	US-09-766-396-2	Sequence 2, Appl1	969	47.5	12.3	679	2	US-09-949-016-8034	Sequence 8034, Ap
897	47.5	12.3	129	2	US-09-534-638-5	Sequence 5, Appl1	970	47.5	12.3	679	2	US-09-949-016-8035	Sequence 8035, Ap
898	47.5	12.3	129	2	US-09-461-325-379	Sequence 379, App	971	47.5	12.3	676	2	US-09-252-991A-21106	Sequence 21106, A
899	47.5	12.3	129	2	US-10-012-542-379	Sequence 379, App	972	47.5	12.3	716	2	US-09-303-518B-112	Sequence 112, App
900	47.5	12.3	129	2	US-10-115-123-379	Sequence 379, App	973	47.5	12.3	733	2	US-08-030-410-3	Sequence 3, Appl1
901	47.5	12.3	146	2	US-09-270-767-36903	Sequence 36903, A	974	47.5	12.3	756	1	US-08-887-518-4	Sequence 4, Appl1
902	47.5	12.3	146	2	US-09-270-767-52120	Sequence 52120, A	975	47.5	12.3	756	1	US-09-023-321-4	Sequence 4, Appl1

976	47.5	12.3	756	1	US-08-890-853-2	Sequence 2, Appl1	1049	47	12.2	217	2	US-09-198-452A-1239	Sequence 1239, Ap
977	47.5	12.3	756	1	US-09-032-475-4	Sequence 4, Appl1	1050	47	12.2	222	2	US-09-252-991A-32998	Sequence 32998, A
978	47.5	12.3	756	1	US-09-099-125A-2	Sequence 2, Appl1	1051	47	12.2	233	2	US-09-949-016-8162	Sequence 8162, Ap
979	47.5	12.3	756	1	US-09-099-124A-2	Sequence 2, Appl1	1052	47	12.2	238	2	US-09-270-767-46022	Sequence 46022, A
980	47.5	12.3	756	2	US-09-032-476-2	Sequence 2, Appl1	1053	47	12.2	241	2	US-09-774-490-4	Sequence 4, Appl1
981	47.5	12.3	756	2	US-08-890-854-2	Sequence 2, Appl1	1054	47	12.2	252	2	US-09-893-737-52	Sequence 52, Appl1
982	47.5	12.3	756	2	US-09-023-324-2	Sequence 2, Appl1	1055	47	12.2	254	2	US-09-586-106D-159	Sequence 159, App
983	47.5	12.3	756	2	US-09-168-629-15	Sequence 15, Appl1	1056	47	12.2	254	2	US-10-799-870-159	Sequence 159, App
984	47.5	12.3	756	2	US-08-910-820-9	Sequence 9, Appl1	1057	47	12.2	257	1	US-07-857-224B-2-41	Sequence 41, Appl1
985	47.5	12.3	756	2	US-09-109-986-2	Sequence 9, Appl1	1058	47	12.2	258	2	US-09-252-991A-16884	Sequence 16884, A
986	47.5	12.3	756	2	US-09-844-908-9	Sequence 9, Appl1	1059	47	12.2	262	2	US-09-252-991A-31293	Sequence 31293, A
987	47.5	12.3	756	2	US-09-868-758-4	Sequence 9, Appl1	1060	47	12.2	268	2	US-09-023-082A-22	Sequence 22, Appl1
988	47.5	12.3	756	2	US-09-796-872-15	Sequence 15, Appl1	1061	47	12.2	268	2	US-09-248-998-22	Sequence 22, Appl1
989	47.5	12.3	756	2	US-09-771-161A-232	Sequence 232, App	1062	47	12.2	268	2	US-09-610-651-22	Sequence 22, Appl1
990	47.5	12.3	812	1	US-08-248-629A-1	Sequence 1, Appl1	1063	47	12.2	268	2	US-09-345-373-32	Sequence 22, Appl1
991	47.5	12.3	812	1	US-08-451-932-1	Sequence 1, Appl1	1064	47	12.2	268	2	US-10-075-446-22	Sequence 22, Appl1
992	47.5	12.3	812	1	US-08-452-260-1	Sequence 1, Appl1	1065	47	12.2	273	2	US-09-252-991A-32185	Sequence 32185, A
993	47.5	12.3	812	1	US-08-326-785-1	Sequence 1, Appl1	1066	47	12.2	281	2	US-09-270-767-45663	Sequence 45663, A
994	47.5	12.3	812	1	US-08-612-788-1	Sequence 1, Appl1	1067	47	12.2	298	2	US-09-582-934-2	Sequence 2, Appl1
995	47.5	12.3	812	1	US-08-605-598B-1	Sequence 1, Appl1	1068	47	12.2	320	2	US-09-248-796A-19283	Sequence 19283, A
996	47.5	12.3	812	1	US-08-429-743-1	Sequence 1, Appl1	1069	47	12.2	325	1	US-08-233-788A-55	Sequence 55, Appl1
997	47.5	12.3	812	1	US-08-866-735-1	Sequence 1, Appl1	1070	47	12.2	336	2	US-09-949-016-10148	Sequence 10148, A
998	47.5	12.3	812	2	US-09-066-028-1	Sequence 1, Appl1	1071	47	12.2	336	2	US-09-949-016-10148	Sequence 10149, A
999	47.5	12.3	812	2	US-09-192-012-3	Sequence 3, Appl1	1072	47	12.2	344	2	US-09-252-991A-17842	Sequence 17842, A
1000	47.5	12.3	812	2	US-09-335-325-1	Sequence 1, Appl1	1073	47	12.2	361	1	US-08-415-751-7	Sequence 7, Appl1
1001	47.5	12.3	812	2	US-08-991-761A-12	Sequence 12, Appl1	1074	47	12.2	361	1	US-08-415-751-36	Sequence 36, Appl1
1002	47.5	12.3	812	2	US-09-335-614-1	Sequence 1, Appl1	1075	47	12.2	370	2	US-09-489-039A-7984	Sequence 7984, Ap
1003	47.5	12.3	812	5	PCR-US95-05107-1	Sequence 1, Appl1	1076	47	12.2	377	2	US-09-252-991A-30567	Sequence 30567, A
1004	47.5	12.3	898	1	US-08-808-982-5	Sequence 5, Appl1	1077	47	12.2	377	2	US-09-902-540-13663	Sequence 13663, A
1005	47.5	12.3	898	2	US-09-306-902A-5	Sequence 5, Appl1	1078	47	12.2	385	2	US-10-029-180-42	Sequence 42, Appl1
1006	47.5	12.3	935	2	US-09-477-962-107	Sequence 107, App	1079	47	12.2	396	2	US-09-252-991A-19425	Sequence 19425, A
1007	47.5	12.3	956	2	US-09-949-016-10011	Sequence 10011, A	1080	47	12.2	399	2	US-09-252-991A-18432	Sequence 18432, A
1008	47.5	12.3	999	2	US-09-949-016-6597	Sequence 6597, Ap	1081	47	12.2	403	2	US-09-438-185A-971	Sequence 971, App
1009	47.5	12.3	1213	2	US-09-949-002-572	Sequence 572, App	1082	47	12.2	426	2	US-09-248-796A-17808	Sequence 17808, A
1010	47.5	12.3	1226	1	US-08-280-443-2	Sequence 2, Appl1	1083	47	12.2	412	2	US-08-311-731A-157	Sequence 157, App
1011	47.5	12.3	1226	1	US-08-457-453-2	Sequence 2, Appl1	1084	47	12.2	419	2	US-10-029-180-84	Sequence 84, Appl1
1012	47.5	12.3	1226	1	US-08-555-678-2	Sequence 2, Appl1	1085	47	12.2	426	2	US-09-252-991A-24705	Sequence 24705, A
1013	47.5	12.3	1226	5	US-09-949-002-313	Sequence 313, App	1086	47	12.2	426	2	US-08-932-823A-2	Sequence 2, Appl1
1014	47.5	12.3	1226	5	PCR-US95-02275-2	Sequence 2, Appl1	1087	47	12.2	426	2	US-09-486-192-2	Sequence 2, Appl1
1015	47.5	12.3	1237	1	US-08-455-543A-48	Sequence 48, Appl1	1088	47	12.2	437	2	US-10-328-459A-2	Sequence 2, Appl1
1016	47.5	12.3	1237	1	US-08-223-305C-48	Sequence 48, Appl1	1089	47	12.2	437	2	US-09-830-189C-2	Sequence 355, App
1017	47.5	12.3	1237	2	US-09-268-163-8	Sequence 8, Appl1	1090	47	12.2	437	2	US-09-991-181-355	Sequence 355, App
1018	47.5	12.3	1237	2	US-10-033-026-8	Sequence 8, Appl1	1091	47	12.2	437	2	US-09-990-444-355	Sequence 355, App
1019	47.5	12.3	1236	2	US-09-268-163-10	Sequence 10, Appl1	1092	47	12.2	437	2	US-10-033-301-16	Sequence 16, Appl1
1020	47.5	12.3	1236	3	US-10-033-026-10	Sequence 10, Appl1	1093	47	12.2	437	2	US-09-997-333-355	Sequence 335, App
1021	47.5	12.3	1237	2	US-08-713-118-2	Sequence 2, Appl1	1094	47	12.2	437	2	US-09-992-598-355	Sequence 355, App
1022	47.5	12.3	1237	2	US-09-452-007-2	Sequence 2, Appl1	1095	47	12.2	437	2	US-10-033-435-16	Sequence 16, Appl1
1023	47.5	12.3	1239	1	US-08-455-543A-47	Sequence 47, Appl1	1096	47	12.2	437	2	US-09-989-735-355	Sequence 355, App
1024	47.5	12.3	1239	1	US-08-223-305C-47	Sequence 47, Appl1	1097	47	12.2	437	2	US-09-988-726-355	Sequence 355, App
1025	47.5	12.3	1239	2	US-09-268-163-6	Sequence 6, Appl1	1098	47	12.2	437	3	US-09-997-514-355	Sequence 355, App
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1028	47.5	12.3	1239	2	US-10-033-026-4	Sequence 4, Appl1	1101	47	12.2	437	3	US-09-997-653-355	Sequence 355, App
1029	47.5	12.3	1239	2	US-09-911-842A-4	Sequence 4, Appl1	1102	47	12.2	437	3	US-09-989-293A-355	Sequence 355, App
1030	47.5	12.3	1239	2	US-08-848-580-6	Sequence 6, Appl1	1103	47	12.2	437	3	US-09-989-728-355	Sequence 355, App
1031	47.5	12.3	1239	2	US-08-848-580-6	Sequence 6, Appl1	1104	47	12.2	437	3	US-09-989-728-355	Sequence 355, App
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1034	47.5	12.3	1239	2	US-08-848-580-6	Sequence 6, Appl1	1107	47	12.2	437	3	US-09-989-728-355	Sequence 355, App
1035	47.5	12.3	1239	2	US-08-848-580-6	Sequence 6, Appl1	1108	47	12.2	437	3	US-09-989-728-355	Sequence 355, App
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1037	47.5	12.3	1239	2	US-08-848-580-6	Sequence 6, Appl1	1110	47	12.2	437	3	US-09-989-728-355	Sequence 355, App
1038	47.5	12.3	1239	2	US-08-848-580-6	Sequence 6, Appl1	1111	47	12.2	437	3	US-09-989-728-355	Sequence 355, App
1039	47.5	12.3	1239	2	US-08-848-580-6	Sequence 6, Appl1	1112	47	12.2	437	3	US-09-989-728-355	Sequence 355, App
1040	47.5	12.3	1239	2	US-08-848-580-6	Sequence 6, Appl1	1113	47	12.2	437	3	US-09-989-728-355	Sequence 355, App
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1043	47.5	12.3	1239	2	US-08-848-580-6	Sequence 6, Appl1	1116	47	12.2	437	3	US-09-989-728-355	Sequence 355, App
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1046	47.5	12.3	1239	2	US-08-848-580-6	Sequence 6, Appl1	1119	47	12.2	437	3	US-09-989-728-355	Sequence 355, App
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1048	47.5	12.3	1239	2	US-08-688-431-29	Sequence 29, Appl1	1121	47	12.2	437	3	US-09-389-528-29	Sequence 29, Appl1

1122	47	12.2	516	2	US-09-181-827A-29	Sequence 29, Appl	1195	46.5	12.0	311	2	US-08-481-985B-69	Sequence 69, Appl
1123	47	12.2	575	2	US-09-927-267-1	Sequence 1, Appl	1196	46.5	12.0	311	2	US-08-481-985B-70	Sequence 70, Appl
1124	47	12.2	596	2	US-09-252-991A-18934	Sequence 18934, A	1197	46.5	12.0	311	2	US-08-370-476-69	Sequence 69, Appl
1125	47	12.2	607	2	US-09-902-540-13935	Sequence 13935, A	1198	46.5	12.0	311	2	US-08-370-476-70	Sequence 70, Appl
1126	47	12.2	756	2	US-09-303-518D-108	Sequence 108, App	1199	46.5	12.0	324	2	US-09-252-991A-31493	Sequence 31493, A
1127	47	12.2	762	2	US-10-100-252-20	Sequence 20, Appl	1200	46.5	12.0	326	2	US-09-337-543-2	Sequence 2, Appl
1128	47	12.2	771	1	US-07-923-976-6	Sequence 6, Appl	1201	46.5	12.0	326	2	US-09-644-450-2	Sequence 2, Appl
1129	47	12.2	783	7	5422348-2	Patent No. 5422348	1202	46.5	12.0	332	2	US-09-489-039A-7261	Sequence 7261, Ap
1130	47	12.2	784	2	US-09-949-002-29	Sequence 329, App	1203	46.5	12.0	334	2	US-09-107-532A-6586	Sequence 6586, Ap
1131	47	12.2	801	2	US-09-252-991A-27870	Sequence 27870, A	1204	46.5	12.0	341	2	US-09-029-045-12	Sequence 12, Appl
1132	47	12.2	817	2	US-09-949-002-453	Sequence 453, App	1205	46.5	12.0	341	2	US-09-435-321-12	Sequence 12, Appl
1133	47	12.2	835	2	US-09-489-039A-12888	Sequence 12888, A	1206	46.5	12.0	376	2	US-09-252-991A-20454	Sequence 20454, A
1134	47	12.2	836	1	US-07-923-976-4	Sequence 4, Appl	1207	46.5	12.0	384	1	US-08-221-750A-11	Sequence 11, Appl
1135	47	12.2	841	2	US-09-489-039A-7701	Sequence 7701, Ap	1208	46.5	12.0	386	2	US-09-302-540-11556	Sequence 11556, A
1136	47	12.2	846	2	US-09-252-991A-26319	Sequence 26319, A	1209	46.5	12.0	388	2	US-09-655-272-2	Sequence 2, Appl
1137	47	12.2	863	1	US-07-923-976-8	Sequence 8, Appl	1210	46.5	12.0	388	2	US-09-892-360-19	Sequence 19, Appl
1138	47	12.2	1207	2	US-09-287-354-5	Sequence 5, Appl	1211	46.5	12.0	401	2	US-09-552-991A-18695	Sequence 18695, A
1139	47	12.2	1207	2	US-10-024-368-5	Sequence 5, Appl	1212	46.5	12.0	412	2	US-09-302-540-12918	Sequence 12918, A
1140	47	12.2	1296	2	US-08-470-260-3	Sequence 3, Appl	1213	46.5	12.0	414	2	US-09-252-991A-17176	Sequence 17176, A
1141	47	12.2	1296	2	US-08-471-491-3	Sequence 3, Appl	1214	46.5	12.0	418	2	US-09-252-991A-22000	Sequence 22000, A
1142	47	12.2	1296	2	US-08-466-662-3	Sequence 3, Appl	1215	46.5	12.0	420	2	US-09-710-262B-8	Sequence 8, Appl
1143	47	12.2	1352	2	US-09-784-554B-2	Sequence 2, Appl	1216	46.5	12.0	425	1	US-08-414-926A-15	Sequence 15, Appl
1144	47	12.2	1693	2	US-08-840-316-1	Sequence 1, Appl	1217	46.5	12.0	425	1	US-08-926-922-15	Sequence 15, Appl
1145	47	12.2	1693	2	US-08-809-523-1	Sequence 1, Appl	1218	46.5	12.0	425	2	US-09-253-682-15	Sequence 15, Appl
1146	47	12.2	1693	2	US-08-471-971-1	Sequence 1, Appl	1219	46.5	12.0	425	2	US-09-527-657-15	Sequence 15, Appl
1147	47	12.2	1693	2	US-09-402-726-1	Sequence 1, Appl	1220	46.5	12.0	425	2	US-09-403-343B-23	Sequence 23, Appl
1148	47	12.2	1693	2	US-08-470-246-1	Sequence 1, Appl	1221	46.5	12.0	425	2	US-09-892-100-15	Sequence 15, Appl
1149	47	12.2	1693	2	US-08-316-765-1	Sequence 1, Appl	1222	46.5	12.0	425	2	US-09-237-543-5	Sequence 5, Appl
1150	47	12.2	1693	2	US-09-724-475-1	Sequence 1, Appl	1223	46.5	12.0	425	2	US-09-644-450-5	Sequence 5, Appl
1151	47	12.2	1693	5	PCT-US93-08849A-1	Sequence 1, Appl	1224	46.5	12.0	425	2	US-09-444-450-5	Sequence 5, Appl
1152	47	12.2	1693	5	PCT-US93-08849-1	Sequence 1, Appl	1225	46.5	12.0	425	2	US-09-302-540-11040	Sequence 11040, A
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1154	47	12.2	2172	2	US-08-611-107-31	Sequence 31, Appl	1227	46.5	12.0	446	2	US-09-531-857A-7	Sequence 7, Appl
1155	47	12.2	2250	1	US-09-335-011-1	Sequence 1, Appl	1228	46.5	12.0	453	2	US-09-583-110-4277	Sequence 15011, A
1156	47	12.2	2257	1	US-08-611-107-10	Sequence 10, Appl	1229	46.5	12.0	503	2	US-09-769-787-74	Sequence 74, Appl
1157	47	12.2	2257	2	US-08-422-560A-10	Sequence 10, Appl	1230	46.5	12.0	533	1	US-08-220-151-15	Sequence 15, Appl
1158	47	12.2	2257	2	US-08-468-793-3	Sequence 10, Appl	1231	46.5	12.0	533	1	US-08-413-118-15	Sequence 15, Appl
1159	47	12.2	4968	2	US-09-424-783-5	Sequence 5, Appl	1232	46.5	12.0	533	2	US-08-473-446-15	Sequence 15, Appl
1160	46.5	12.0	73	2	US-09-270-767-37448	Sequence 37448, A	1233	46.5	12.0	536	2	US-09-107-433-2945	Sequence 2945, Ap
1161	46.5	12.0	73	2	US-09-270-767-5265	Sequence 5265, A	1234	46.5	12.0	534	2	US-10-094-749-3165	Sequence 3165, Ap
1162	46.5	12.0	85	2	US-09-134-000C-6127	Sequence 6127, Ap	1235	46.5	12.0	558	2	US-09-252-991A-20561	Sequence 20561, A
1163	46.5	12.0	87	2	US-09-513-999C-7318	Sequence 7318, Ap	1236	46.5	12.0	603	2	US-09-252-991A-31905	Sequence 31905, A
1164	46.5	12.0	88	2	US-09-248-796A-22413	Sequence 22413, A	1237	46.5	12.0	632	2	US-09-354-129-8	Sequence 8, Appl
1165	46.5	12.0	91	1	US-08-469-202-18	Sequence 18, Appl	1238	46.5	12.0	632	2	US-09-504-357-8	Sequence 8, Appl
1166	46.5	12.0	96	2	US-09-513-999C-4120	Sequence 4120, Ap	1239	46.5	12.0	662	2	US-09-252-991A-22861	Sequence 22861, A
1167	46.5	12.0	146	2	US-09-893-737-42	Sequence 42, Appl	1240	46.5	12.0	667	2	US-09-502-540-12551	Sequence 12551, A
1168	46.5	12.0	149	2	US-09-543-681A-8305	Sequence 8305, Ap	1241	46.5	12.0	688	1	US-08-376-362A-20	Sequence 20, Appl
1169	46.5	12.0	157	2	US-09-252-991A-21915	Sequence 21915, A	1242	46.5	12.0	716	2	US-09-303-518B-106	Sequence 106, Appl
1170	46.5	12.0	157	2	US-09-902-540-13881	Sequence 13881, A	1243	46.5	12.0	76	2	US-09-323-849-34	Sequence 34, Appl
1171	46.5	12.0	174	2	US-09-902-540-10419	Sequence 10419, A	1244	46.5	12.0	842	2	US-10-132-350-50	Sequence 50, Appl
1172	46.5	12.0	177	2	US-09-747-259-6	Sequence 6, Appl	1245	46.5	12.0	842	2	US-10-132-350-52	Sequence 52, Appl
1173	46.5	12.0	177	2	US-09-816-744-6	Sequence 6, Appl	1246	46.5	12.0	900	2	US-09-107-532A-5284	Sequence 5284, Ap
1174	46.5	12.0	187	2	US-09-242-890-3	Sequence 3, Appl	1247	46.5	12.0	933	2	US-09-252-991A-28964	Sequence 28964, A
1175	46.5	12.0	200	2	US-09-252-991A-24765	Sequence 24765, A	1248	46.5	12.0	966	2	US-09-949-002-423	Sequence 423, App
1176	46.5	12.0	208	2	US-10-104-047-5002	Sequence 2002, Ap	1249	46.5	12.0	1150	2	US-09-252-991A-24671	Sequence 24671, A
1177	46.5	12.0	216	2	US-09-489-039A-11172	Sequence 11172, A	1250	46.5	12.0	1224	2	US-09-538-092-1200	Sequence 1200, Ap
1178	46.5	12.0	224	2	US-09-242-890-13	Sequence 13, Appl	1251	46.5	12.0	2234	1	US-09-252-991A-17231	Sequence 17231, A
1179	46.5	12.0	233	2	US-09-949-016-9008	Sequence 9008, Ap	1252	46	11.9	33	3	US-08-190-802A-106	Sequence 106, App
1180	46.5	12.0	245	2	US-10-094-749-3168	Sequence 3168, Ap	1253	46	11.9	33	3	US-08-477-346-106	Sequence 106, App
1181	46.5	12.0	254	2	US-09-237-543-4	Sequence 4, Appl	1254	46	11.9	33	2	US-08-473-089-106	Sequence 106, App
1182	46.5	12.0	254	2	US-09-644-450-4	Sequence 4, Appl	1255	46	11.9	33	2	US-08-487-072A-106	Sequence 106, App
1183	46.5	12.0	256	2	US-10-104-047-3255	Sequence 3255, Ap	1256	46	11.9	37	2	US-09-270-767-59605	Sequence 59605, A
1184	46.5	12.0	256	2	US-09-252-991A-22554	Sequence 22554, A	1257	46	11.9	72	2	US-09-685-166A-890	Sequence 890, App
1185	46.5	12.0	292	2	US-09-252-991A-22366	Sequence 22366, A	1258	46	11.9	72	2	US-09-619-426-890	Sequence 890, App
1186	46.5	12.0	302	1	US-09-893-737-310	Sequence 310, App	1259	46	11.9	72	2	US-09-759-143-890	Sequence 890, App
1187	46.5	12.0	308	1	US-08-484-905-71	Sequence 71, Appl	1260	46	11.9	72	2	US-10-012-896-890	Sequence 890, App
1188	46.5	12.0	308	2	US-08-484-905-72	Sequence 72, Appl	1261	46	11.9	72	3	US-10-144-678A-880	Sequence 880, App
1189	46.5	12.0	308	2	US-08-481-985B-71	Sequence 71, Appl	1262	46	11.9	91	2	US-09-893-737-6	Sequence 6, Appl
1190	46.5	12.0	308	2	US-08-481-985B-72	Sequence 72, Appl	1263	46	11.9	95	1	US-08-341-219-2	Sequence 2, Appl
1191	46.5	12.0	308	2	US-08-370-476-71	Sequence 71, Appl	1264	46	11.9	95	2	US-08-312-314A-2	Sequence 2, Appl
1192	46.5	12.0	308	2	US-08-370-476-72	Sequence 72, Appl	1265	46	11.9	102	2	US-09-252-991A-28085	Sequence 28085, A
1193	46.5	12.0	311	1	US-08-484-905-69	Sequence 69, Appl	1266	46	11.9	106	2	US-09-069-023-10	Sequence 10, Appl
1194	46.5	12.0	311	1	US-08-484-905-70	Sequence 70, Appl	1267	46	11.9	126	2	US-09-489-039A-9562	Sequence 9562, Ap

1268	46	11.9	130	2	US-09-621-976-5203	Sequence 5203, Ap	1341	46	11.9	246	3	US-10-015-715A-338	Sequence 338, App
1269	46	11.9	131	2	US-09-902-540-15441	Sequence 16441, A	1342	46	11.9	246	3	US-10-007-236A-338	Sequence 338, App
1270	46	11.9	135	2	US-09-621-976-4366	Sequence 4366, Ap	1343	46	11.9	247	1	US-08-463-911-2	Sequence 2, Appl
1271	46	11.9	138	1	US-08-053-171-7	Sequence 7, Appl	1344	46	11.9	247	2	US-09-140-804-8	Sequence 8, Appl
1272	46	11.9	138	1	US-08-053-171-11	Sequence 11, Appl	1345	46	11.9	247	2	US-09-118-408-3	Sequence 3, Appl
1273	46	11.9	162	2	US-10-101-464A-611	Sequence 611, App	1346	46	11.9	247	2	US-09-228-966-105	Sequence 105, App
1274	46	11.9	164	2	US-09-311-784A-18	Sequence 18, Appl	1347	46	11.9	247	2	US-09-506-855-3	Sequence 3, Appl
1275	46	11.9	171	2	US-09-248-796A-16203	Sequence 16203, A	1348	46	11.9	247	2	US-09-686-838B-8	Sequence 8, Appl
1276	46	11.9	181	2	US-10-094-479A-1792	Sequence 1792, Ap	1349	46	11.9	247	2	US-09-911-176B-3	Sequence 3, Appl
1277	46	11.9	183	2	US-09-117-257-42	Sequence 42, Appl	1350	46	11.9	247	2	US-09-619-740-3	Sequence 3, Appl
1278	46	11.9	183	2	US-09-489-352-42	Sequence 42, Appl	1351	46	11.9	247	2	US-09-776-976-4	Sequence 4, Appl
1279	46	11.9	186	2	US-09-540-236-2748	Sequence 2748, Ap	1352	46	11.9	247	2	US-09-506-852-3	Sequence 3, Appl
1280	46	11.9	187	1	US-08-589-711-2	Sequence 2, Appl	1353	46	11.9	247	2	US-09-909-547-4	Sequence 4, Appl
1281	46	11.9	187	2	US-09-117-257-8	Sequence 8, Appl	1354	46	11.9	247	2	US-10-101-464A-105	Sequence 105, App
1282	46	11.9	187	2	US-09-117-257-9	Sequence 9, Appl	1355	46	11.9	247	2	US-10-392-706-3	Sequence 3, Appl
1283	46	11.9	187	2	US-09-117-257-15	Sequence 15, Appl	1356	46	11.9	247	2	US-10-231-814-4	Sequence 4, Appl
1284	46	11.9	187	2	US-09-117-257-23	Sequence 23, Appl	1357	46	11.9	247	2	US-10-285-833-4	Sequence 4, Appl
1285	46	11.9	187	2	US-09-117-257-25	Sequence 25, Appl	1358	46	11.9	272	2	US-09-252-991A-20051	Sequence 20051, A
1286	46	11.9	187	2	US-09-117-257-32	Sequence 32, Appl	1359	46	11.9	277	2	US-09-489-039A-12739	Sequence 12739, A
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ALIGNMENTS

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; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan I.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Goddard, Andrew
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hallan, Kenneth J.
; APPLICANT: Pan, James
; APPLICANT: Peoni, Nicholas F.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2830PIC23
; CURRENT APPLICATION NUMBER: US/10/012,231A
; CURRENT FILING DATE: 2002-06-10
; Prior Application removed - See File Wrapper or Palm
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US-10-012-231A-22
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; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2830P1C48
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; CURRENT FILING DATE: 2002-06-25
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; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
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US-10-015-671A-22
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RESULT 4
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; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2830P1C47
; CURRENT APPLICATION NUMBER: US/10/015,671A
; CURRENT FILING DATE: 2001-12-11
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 477
; SEQ ID NO 22
; LENGTH: 73
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: sig_peptide
; LOCATION: 1-15
; OTHER INFORMATION: Signal peptide.
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 3-18
; OTHER INFORMATION: Growth factor and cytokines receptors family.
US-10-015-671A-22

Query Match          100.0%; Score 386; DB 2; Length 73;
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Best Local Similarity 100.0%; Pred. No. 1,4e-43;
Matches 73; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MLTLTLLTLLKSGSCLWGLVGAQKVSATDAPIRDMAFPPSPFCLLPHRPMATCSQ 60
Db 1 MLTLTLLTLLKSGSCLWGLVGAQKVSATDAPIRDMAFPPSPFCLLPHRPMATCSQ 60

Qy 61 AOPRGEGERKVG DG 73
Db 61 AOPRGEGERKVG DG 73

RESULT 5
US-10-015-393A-22

; Sequence 22, Application US/10015393A
; Patent No. 6951737
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan I.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: P2830P1C46
; CURRENT APPLICATION NUMBER: US/10/015,393A
; CURRENT FILING DATE: 2002-06-10
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 477
; SEQ ID NO 22
; LENGTH: 73
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: sig_peptide
; LOCATION: 1-15
; OTHER INFORMATION: Signal peptide.
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 3-18
; OTHER INFORMATION: Growth factor and cytokines receptors family.
US-10-015-393A-22

Query Match 100.0%; Score 386; DB 2; Length 73;
Best Local Similarity 100.0%; Pred. No. 1,4e-43;
Matches 73; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MLTLTLLTLLKSGSCLWGLVGAQKVSATDAPIRDMAFPPSPFCLLPHRPMATCSQ 60
Db 1 MLTLTLLTLLKSGSCLWGLVGAQKVSATDAPIRDMAFPPSPFCLLPHRPMATCSQ 60

Qy 61 AOPRGEGERKVG DG 73
Db 61 AOPRGEGERKVG DG 73

RESULT 6

US-10-011-833A-22
; Sequence 22, Application US/10011833A
; Patent No. 6951920
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc

; APPLICANT: Eaton, Dan I.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: P2830P1C2
; CURRENT APPLICATION NUMBER: US/10/011,833A
; CURRENT FILING DATE: 2002-06-25
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 477
; SEQ ID NO 22
; LENGTH: 73
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: sig_peptide
; LOCATION: 1-15
; OTHER INFORMATION: Signal peptide.
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 3-18
; OTHER INFORMATION: Growth factor and cytokines receptors family.
US-10-011-833A-22

Query Match 100.0%; Score 386; DB 2; Length 73;
Best Local Similarity 100.0%; Pred. No. 1,4e-43;
Matches 73; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MLTLTLLTLLKSGSCLWGLVGAQKVSATDAPIRDMAFPPSPFCLLPHRPMATCSQ 60
Db 1 MLTLTLLTLLKSGSCLWGLVGAQKVSATDAPIRDMAFPPSPFCLLPHRPMATCSQ 60

Qy 61 AOPRGEGERKVG DG 73
Db 61 AOPRGEGERKVG DG 73

RESULT 7

US-10-006-041A-22
; Sequence 22, Application US/10006041A
; Patent No. 6951921
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan I.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: P2830P1C8
; CURRENT APPLICATION NUMBER: US/10/006,041A
; CURRENT FILING DATE: 2001-12-06
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 477
; SEQ ID NO 22
; LENGTH: 73


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; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: sig_peptide
; LOCATION: 1-15
; OTHER INFORMATION: Signal peptide.
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 3-18
; OTHER INFORMATION: Growth factor and cytokines receptors family.
US-10-006-041A-22
```

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Query Match          100.0%; Score 386; DB 2; Length 73;
Best Local Similarity 100.0%; Pred. No. 1.4e-43;
Matches 73; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY      1 MLLTLTLTLTLTLKSGCIEMGLVGAQVSSATDAPIRDMAFPPSPFLCLPHRPMTCSQ 60
Db      1 MLLTLTLTLTLTLKSGCIEMGLVGAQVSSATDAPIRDMAFPPSPFLCLPHRPMTCSQ 60
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QY      61 AOPRGEGERKVGDG 73
Db      61 AOPRGEGERKVGDG 73
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RESULT 8

US-10-012-064A-22

Sequence 22, Application US/10012064A

Patent No. 6953841

GENERAL INFORMATION:

APPLICANT: Baker, Kevin P.

APPLICANT: Botstein, David

APPLICANT: Desnoyers, Luc

APPLICANT: Baton, Dan L.

APPLICANT: Ferrara, Napoleone

APPLICANT: Fong, Sherman

APPLICANT: Gao, Wei-Qiang

APPLICANT: Goddard, Audrey

APPLICANT: Godowski, Paul J.

APPLICANT: Grimaldi, Christopher J.

APPLICANT: Gurney, Austin L.

APPLICANT: Hillan, Kenneth J.

APPLICANT: Pan, James

APPLICANT: Paoni, Nicholas F.

TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic

TITLE OF INVENTION: Acids Encoding the Same

FILE REFERENCE: P2830P1C19

CURRENT APPLICATION NUMBER: US/10/012,064A

CURRENT FILING DATE: 2002-07-15

PRIOR APPLICATION NUMBER: 60/098716

PRIOR FILING DATE: 1998-09-01

PRIOR APPLICATION NUMBER: 60/098723

PRIOR FILING DATE: 1998-09-01

PRIOR APPLICATION NUMBER: 60/098749

PRIOR FILING DATE: 1998-09-01

PRIOR APPLICATION NUMBER: 60/098750

PRIOR FILING DATE: 1998-09-01

PRIOR APPLICATION NUMBER: 60/098803

PRIOR FILING DATE: 1998-09-02

PRIOR APPLICATION NUMBER: 60/098821

PRIOR FILING DATE: 1998-09-02

PRIOR APPLICATION NUMBER: 60/098843

PRIOR FILING DATE: 1998-09-02

PRIOR APPLICATION NUMBER: 60/099536

PRIOR FILING DATE: 1998-09-09

PRIOR APPLICATION NUMBER: 60/099596

PRIOR FILING DATE: 1998-09-09

PRIOR APPLICATION NUMBER: 60/099598

PRIOR FILING DATE: 1998-09-09

Prior Application data removed - See File Wrapper or PALM.

NUMBER OF SEQ ID NOS: 477

SEQ ID NO 22

LENGTH: 73

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; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: sig_peptide
; LOCATION: 1-15
; OTHER INFORMATION: Signal peptide.
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 3-18
; OTHER INFORMATION: Growth factor and cytokines receptors family.
US-10-012-064A-22
```

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Query Match          100.0%; Score 386; DB 2; Length 73;
Best Local Similarity 100.0%; Pred. No. 1.4e-43;
Matches 73; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY      1 MLLTLTLTLTLTLKSGCIEMGLVGAQVSSATDAPIRDMAFPPSPFLCLPHRPMTCSQ 60
Db      1 MLLTLTLTLTLTLKSGCIEMGLVGAQVSSATDAPIRDMAFPPSPFLCLPHRPMTCSQ 60
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```
QY      61 AOPRGEGERKVGDG 73
Db      61 AOPRGEGERKVGDG 73
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RESULT 9

US-10-015-392A-22

Sequence 22, Application US/10015392A

Patent No. 6972186

GENERAL INFORMATION:

APPLICANT: Baker, Kevin P.

APPLICANT: Botstein, David

APPLICANT: Desnoyers, Luc

APPLICANT: Baton, Dan L.

APPLICANT: Ferrara, Napoleone

APPLICANT: Fong, Sherman

APPLICANT: Gao, Wei-Qiang

APPLICANT: Goddard, Audrey

APPLICANT: Godowski, Paul J.

APPLICANT: Grimaldi, Christopher J.

APPLICANT: Gurney, Austin L.

APPLICANT: Hillan, Kenneth J.

APPLICANT: Pan, James

APPLICANT: Paoni, Nicholas F.

TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic

TITLE OF INVENTION: Acids Encoding the Same

FILE REFERENCE: P2830P1C58

CURRENT APPLICATION NUMBER: US/10/015,392A

CURRENT FILING DATE: 2001-12-12

PRIOR APPLICATION NUMBER: 60/098716

PRIOR FILING DATE: 1998-09-01

PRIOR APPLICATION NUMBER: 60/098723

PRIOR FILING DATE: 1998-09-01

PRIOR APPLICATION NUMBER: 60/098749

PRIOR FILING DATE: 1998-09-01

PRIOR APPLICATION NUMBER: 60/098750

PRIOR FILING DATE: 1998-09-01

PRIOR APPLICATION NUMBER: 60/098803

PRIOR FILING DATE: 1998-09-02

PRIOR APPLICATION NUMBER: 60/098821

PRIOR FILING DATE: 1998-09-02

PRIOR APPLICATION NUMBER: 60/098843

PRIOR FILING DATE: 1998-09-02

PRIOR APPLICATION NUMBER: 60/099536

PRIOR FILING DATE: 1998-09-09

PRIOR APPLICATION NUMBER: 60/099596

PRIOR FILING DATE: 1998-09-09

PRIOR APPLICATION NUMBER: 60/099598

PRIOR FILING DATE: 1998-09-09

Remaining Prior Application data removed - See File Wrapper or PALM.

NUMBER OF SEQ ID NOS: 477

SEQ ID NO 22

LENGTH: 73


```
TYPE: PRT
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: sig_peptide
LOCATION: 1-15
OTHER INFORMATION: Signal peptide.
FEATURE:
NAME/KEY: misc_feature
LOCATION: 3-18
OTHER INFORMATION: Growth factor and cytokines receptors family.
US-10-015-392A-22
```

```
Query Match          100.0%; Score 386; DB 2; Length 73;
Best Local Similarity 100.0%; Pred. No. 1.4e-43;
Matches 73; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY 1 MLLTLLTLLTLLKSGCLEWGLVGAQKVSSATDAPIRDMAFPFSPFLCLPHRPAMTCSQ 60
DB 1 MLLTLLTLLTLLKSGCLEWGLVGAQKVSSATDAPIRDMAFPFSPFLCLPHRPAMTCSQ 60
```

```
QY 61 AQPGEGERKVGDG 73
DB 61 AQPGEGERKVGDG 73
```

RESULT 10
US-10-011-795B-22
Sequence 22, Application US/10011795B
Patent No. 7012131
GENERAL INFORMATION:

APPLICANT: Baker, Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan I.
APPLICANT: Ferrara, Napoleone
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, Christopher J.
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth J.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2830P1C25
CURRENT APPLICATION NUMBER: US/10/011,795B
CURRENT FILING DATE: 2001-12-07
PRIOR APPLICATION NUMBER: 60/098716
PRIOR FILING DATE: 1998-09-01
PRIOR APPLICATION NUMBER: 60/098723
PRIOR FILING DATE: 1998-09-01
PRIOR APPLICATION NUMBER: 60/098749
PRIOR FILING DATE: 1998-09-01
PRIOR APPLICATION NUMBER: 60/098750
PRIOR FILING DATE: 1998-09-01
PRIOR APPLICATION NUMBER: 60/098803
PRIOR FILING DATE: 1998-09-02
PRIOR APPLICATION NUMBER: 60/098821
PRIOR FILING DATE: 1998-09-02
PRIOR APPLICATION NUMBER: 60/098843
PRIOR FILING DATE: 1998-09-02
PRIOR APPLICATION NUMBER: 60/099536
PRIOR FILING DATE: 1998-09-09
PRIOR APPLICATION NUMBER: 60/099596
PRIOR FILING DATE: 1998-09-09
PRIOR APPLICATION NUMBER: 60/099598
PRIOR FILING DATE: 1998-09-09
Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 477
SEQ ID NO 22
LENGTH: 73

```
TYPE: PRT
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: sig_peptide
LOCATION: 1-15
OTHER INFORMATION: Signal peptide.
FEATURE:
NAME/KEY: misc_feature
LOCATION: 3-18
OTHER INFORMATION: Growth factor and cytokines receptors family.
US-10-011-795B-22
```

```
Query Match          100.0%; Score 386; DB 3; Length 73;
Best Local Similarity 100.0%; Pred. No. 1.4e-43;
Matches 73; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 MLLTLLTLLTLLKSGCLEWGLVGAQKVSSATDAPIRDMAFPFSPFLCLPHRPAMTCSQ 60
DB 1 MLLTLLTLLTLLKSGCLEWGLVGAQKVSSATDAPIRDMAFPFSPFLCLPHRPAMTCSQ 60
```

```
QY 61 AQPGEGERKVGDG 73
DB 61 AQPGEGERKVGDG 73
```

RESULT 11
US-10-015-386A-22
Sequence 22, Application US/10015386A
Patent No. 7022498
GENERAL INFORMATION:

APPLICANT: Baker, Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan I.
APPLICANT: Ferrara, Napoleone
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, Christopher J.
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth J.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2830P1C55
CURRENT APPLICATION NUMBER: US/10/015,386A
CURRENT FILING DATE: 2001-12-12
Prior Application removed - See File Wrapper or Palm
NUMBER OF SEQ ID NOS: 477
SEQ ID NO 22
LENGTH: 73
TYPE: PRT
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: sig_peptide
LOCATION: 1-15
OTHER INFORMATION: Signal peptide.
FEATURE:
NAME/KEY: misc_feature
LOCATION: 3-18
OTHER INFORMATION: Growth factor and cytokines receptors family.
US-10-015-386A-22

```
Query Match          100.0%; Score 386; DB 3; Length 73;
Best Local Similarity 100.0%; Pred. No. 1.4e-43;
Matches 73; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 MLLTLLTLLTLLKSGCLEWGLVGAQKVSSATDAPIRDMAFPFSPFLCLPHRPAMTCSQ 60
DB 1 MLLTLLTLLTLLKSGCLEWGLVGAQKVSSATDAPIRDMAFPFSPFLCLPHRPAMTCSQ 60
```

```
OY      61 AOPRGEKGVGDG 73
Db      61 AOPRGEKGVGDG 73

RESULT 12
US-10-012-121A-22
; Sequence 22, Application US/10012121A
; Patent No. 7022817
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan I.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Goddard, Audrey
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2830P1C20
; CURRENT APPLICATION NUMBER: US/10/012,121A
; PRIOR FILING DATE: 2001-12-07
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 477
; SEQ ID NO 22
; LENGTH: 73
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: sig_peptide
; LOCATION: 1-15
; OTHER INFORMATION: Signal peptide.
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 3-18
; OTHER INFORMATION: Growth factor and cytokines receptors family.
US-10-012-121A-22

Query Match      100.0%; Score 386; DB 3; Length 73;
Best Local Similarity 100.0%; Pred. No. 1,4e-43;
Matches 73; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY      1 MULTLLLLLLLLKSCLEWGLVGAQKVSATDAPIRDMAPPPSPFLCLPHRPAMTCSQ 60
Db      1 MULTLLLLLLLLKSCLEWGLVGAQKVSATDAPIRDMAPPPSPFLCLPHRPAMTCSQ 60

OY      61 AOPRGEKGVGDG 73
Db      61 AOPRGEKGVGDG 73

RESULT 13
US-10-006-485A-22
; Sequence 22, Application US/10006485A
; Patent No. 7026448
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan I.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
```

```
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2830P1C9
; CURRENT APPLICATION NUMBER: US/10/006,485A
; PRIOR FILING DATE: 2001-12-06
; PRIOR APPLICATION NUMBER: 60/098716
; PRIOR FILING DATE: 1998-09-01
; PRIOR APPLICATION NUMBER: 60/098723
; PRIOR FILING DATE: 1998-09-01
; PRIOR APPLICATION NUMBER: 60/098749
; PRIOR FILING DATE: 1998-09-01
; PRIOR APPLICATION NUMBER: 60/098750
; PRIOR FILING DATE: 1998-09-01
; PRIOR APPLICATION NUMBER: 60/098803
; PRIOR FILING DATE: 1998-09-02
; PRIOR APPLICATION NUMBER: 60/098821
; PRIOR FILING DATE: 1998-09-02
; PRIOR APPLICATION NUMBER: 60/098843
; PRIOR FILING DATE: 1998-09-02
; PRIOR APPLICATION NUMBER: 60/099536
; PRIOR FILING DATE: 1998-09-09
; PRIOR APPLICATION NUMBER: 60/099596
; PRIOR FILING DATE: 1998-09-09
; PRIOR APPLICATION NUMBER: 60/099598
; PRIOR FILING DATE: 1998-09-09
; PRIOR APPLICATION NUMBER: 60/099602
; PRIOR FILING DATE: 1998-09-09
; PRIOR APPLICATION NUMBER: 60/099642
; PRIOR FILING DATE: 1998-09-09
; PRIOR APPLICATION NUMBER: 60/099741
; PRIOR FILING DATE: 1998-09-10
; PRIOR APPLICATION NUMBER: 60/099754
; PRIOR FILING DATE: 1998-09-10
; PRIOR APPLICATION NUMBER: 60/099763
; PRIOR FILING DATE: 1998-09-10
; PRIOR APPLICATION NUMBER: 60/099792
; PRIOR FILING DATE: 1998-09-10
; PRIOR APPLICATION NUMBER: 60/099808
; PRIOR FILING DATE: 1998-09-10
; PRIOR APPLICATION NUMBER: 60/099812
; PRIOR FILING DATE: 1998-09-10
; PRIOR APPLICATION NUMBER: 60/099815
; PRIOR FILING DATE: 1998-09-10
; PRIOR APPLICATION NUMBER: 60/099816
; PRIOR FILING DATE: 1998-09-10
; PRIOR APPLICATION NUMBER: 60/100385
; PRIOR FILING DATE: 1998-09-15
; PRIOR APPLICATION NUMBER: 60/100388
; PRIOR FILING DATE: 1998-09-15
; PRIOR APPLICATION NUMBER: 60/100390
; PRIOR FILING DATE: 1998-09-15
; PRIOR APPLICATION NUMBER: 60/100584
; PRIOR FILING DATE: 1998-09-16
; PRIOR APPLICATION NUMBER: 60/100627
; PRIOR FILING DATE: 1998-09-16
; PRIOR APPLICATION NUMBER: 60/100661
; PRIOR FILING DATE: 1998-09-16
; PRIOR APPLICATION NUMBER: 60/100662
; PRIOR FILING DATE: 1998-09-16
; PRIOR APPLICATION NUMBER: 60/100664
; PRIOR FILING DATE: 1998-09-16
; PRIOR APPLICATION NUMBER: 60/100683
; PRIOR FILING DATE: 1998-09-17
; PRIOR APPLICATION NUMBER: 60/100684
; PRIOR FILING DATE: 1998-09-17
; PRIOR APPLICATION NUMBER: 60/100710
; PRIOR FILING DATE: 1998-09-17
; PRIOR APPLICATION NUMBER: 60/100711
; PRIOR FILING DATE: 1998-09-17
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PRIOR APPLICATION NUMBER: 60/100848
 PRIOR FILING DATE: 1998-09-18
 PRIOR APPLICATION NUMBER: 60/100849
 PRIOR FILING DATE: 1998-09-18
 PRIOR APPLICATION NUMBER: 60/100919
 PRIOR FILING DATE: 1998-09-17
 PRIOR APPLICATION NUMBER: 60/100930
 PRIOR FILING DATE: 1998-09-17
 PRIOR APPLICATION NUMBER: 60/101014
 PRIOR FILING DATE: 1998-09-18
 PRIOR APPLICATION NUMBER: 60/101068
 PRIOR FILING DATE: 1998-09-18
 PRIOR APPLICATION NUMBER: 60/101071
 PRIOR FILING DATE: 1998-09-18
 PRIOR APPLICATION NUMBER: 60/101279
 PRIOR FILING DATE: 1998-09-22
 PRIOR APPLICATION NUMBER: 60/101471
 PRIOR FILING DATE: 1998-09-23
 PRIOR APPLICATION NUMBER: 60/101472
 PRIOR FILING DATE: 1998-09-23
 PRIOR APPLICATION NUMBER: 60/101474
 PRIOR FILING DATE: 1998-09-23
 PRIOR APPLICATION NUMBER: 60/101475
 PRIOR FILING DATE: 1998-09-23
 PRIOR APPLICATION NUMBER: 60/101476
 PRIOR FILING DATE: 1998-09-23
 PRIOR APPLICATION NUMBER: 60/101477
 PRIOR FILING DATE: 1998-09-23
 PRIOR APPLICATION NUMBER: 60/101479
 PRIOR FILING DATE: 1998-09-23
 PRIOR APPLICATION NUMBER: 60/101738
 PRIOR FILING DATE: 1998-09-24
 PRIOR APPLICATION NUMBER: 60/101741
 PRIOR FILING DATE: 1998-09-24
 PRIOR APPLICATION NUMBER: 60/101743
 PRIOR FILING DATE: 1998-09-24
 PRIOR APPLICATION NUMBER: 60/101915
 PRIOR FILING DATE: 1998-09-24
 PRIOR APPLICATION NUMBER: 60/101916
 PRIOR FILING DATE: 1998-09-24
 PRIOR APPLICATION NUMBER: 60/102207
 PRIOR FILING DATE: 1998-09-29
 PRIOR APPLICATION NUMBER: 60/102240
 PRIOR FILING DATE: 1998-09-29
 PRIOR APPLICATION NUMBER: 60/102307
 PRIOR FILING DATE: 1998-09-29
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 PRIOR APPLICATION NUMBER: 60/106023
 PRIOR FILING DATE: 1998-10-28

Query Match 100.0%; Score 386; DB 3; Length 73;
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 Db 1 MLLTTLTLLTLLKSGCLEWGLVGAQVSSATDAPIRDMAFPSPFLCLLPHRAPMTCSQ 60
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RESULT 14
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 ; Sequence 22, Application US/10006746A
 ; Patent No. 7026449
 ; GENERAL INFORMATION:
 ; APPLICANT: Baker, Kevin P.
 ; APPLICANT: Botstein, David
 ; APPLICANT: Desnoyers, Luc
 ; APPLICANT: Batou, Dan 1.
 ; APPLICANT: Ferrara, Napoleone
 ; APPLICANT: Fong, Sherman
 ; APPLICANT: Gao, Wei-Qiang
 ; APPLICANT: Goddard, Audrey
 ; APPLICANT: Godowski, Paul J.
 ; APPLICANT: Grimaldi, Christopher J.
 ; APPLICANT: Gurney, Austin U.
 ; APPLICANT: Hillan, Kenneth J.
 ; APPLICANT: Pan, James

APPLICANT: Paoni, Nicholas F.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2830PICS
CURRENT FILING DATE: 2001-12-06
PRIOR APPLICATION NUMBER: 60/098716
PRIOR FILING DATE: 1998-09-01
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PRIOR FILING DATE: 1998-10-28

Query Match 100.0%; Score 386; DB 3; Length 73;
Best Local Similarity 100.0%; Pred. No. 1.4e-43;
Matches 73; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB 1 MLTLTLLTLLLLKSGCLWGLVGAQKVSATDAPIRDMAFPPSPFLCLPHRPAMTC SQ 60
QY 61 AOPRGEKVG DG 73
DB 61 AOPRGEKVG DG 73

RESULT 15

US-10-012-752A-22
Sequence 22, Application US/10012752A
Patent No. 7026455
GENERAL INFORMATION:
APPLICANT: Baker, Kevin P.
APPLICANT: Botstein, David
APPLICANT: Deenoyers, Luc
APPLICANT: Baton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, Christopher J.
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth J.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITLE OF INVENTION: Acids Encoding the Same

FILE REFERENCE: P2830PIC24
CURRENT APPLICATION NUMBER: US/10/012,752A
CURRENT FILING DATE: 2002-06-25
Prior application removed - See File Wrapper or Palm
NUMBER OF SEQ ID NOS: 477
SEQ ID NO 22
LENGTH: 73
TYPE: PRT
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: sig_peptide
LOCATION: 1-15
OTHER INFORMATION: Signal peptide.
FEATURE:
NAME/KEY: misc_feature
LOCATION: 3-18
OTHER INFORMATION: Growth factor and cytokines receptors family.
US-10-012-752A-22

Query Match 100.0%; Score 386; DB 3; Length 73;
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Search completed: June 15, 2006, 07:20:35
Job time: 66 secs

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